

RECEIVED JUNE 16, 2008

Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TestAmerica TARL**2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.**Data Package Contains Pages

Report Nbr: 39309

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JUL 28 2008
EDMC

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05387	108-025	B1VC05	J8D250391-1	KL3TJ1AA	9KL3TJ10	8127574
		B1VC05	J8D250391-1	KL3TJ1AC	9KL3TJ10	8127567
		B1VC05	J8D250391-1	KL3TJ1AD	9KL3TJ10	8127568
		B1VC13	J8D250391-10	KL3T91AA	9KL3T910	8127574
		B1VC13	J8D250391-10	KL3T91AC	9KL3T910	8127567
		B1VC13	J8D250391-10	KL3T91AD	9KL3T910	8127568
		B1VC10	J8D250391-11	KL3VA1AA	9KL3VA10	8127574
		B1VC10	J8D250391-11	KL3VA1AC	9KL3VA10	8127567
		B1VC10	J8D250391-11	KL3VA1AD	9KL3VA10	8127568
		B1VC11	J8D250391-12	KL3VC1AA	9KL3VC10	8127574
		B1VC11	J8D250391-12	KL3VC1AC	9KL3VC10	8127567
		B1VC11	J8D250391-12	KL3VC1AD	9KL3VC10	8127568
		B1VC20	J8D250391-13	KL3VD1AA	9KL3VD10	8127574
108-025		B1VC20	J8D250391-13	KL3VD1AC	9KL3VD10	8127567
		B1VC20	J8D250391-13	KL3VD1AD	9KL3VD10	8127568

Comments:

Report Nbr: 39309

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05387	I08-025	B1VC26	J8D250391-2	KL3TM1AA	9KL3TM10	8127574
		B1VC26	J8D250391-2	KL3TM1AC	9KL3TM10	8127567
		B1VC26	J8D250391-2	KL3TM1AD	9KL3TM10	8127568
		B1VC04	J8D250391-3	KL3TN1AA	9KL3TN10	8127574
		B1VC04	J8D250391-3	KL3TN1AC	9KL3TN10	8127567
		B1VC04	J8D250391-3	KL3TN1AD	9KL3TN10	8127568
		B1VC28	J8D250391-4	KL3TQ1AA	9KL3TQ10	8127574
		B1VC28	J8D250391-4	KL3TQ1AC	9KL3TQ10	8127567
		B1VC28	J8D250391-4	KL3TQ1AD	9KL3TQ10	8127568
		B1VC27	J8D250391-5	KL3TT1AA	9KL3TT10	8127574
		B1VC27	J8D250391-5	KL3TT1AC	9KL3TT10	8127567
		B1VC27	J8D250391-5	KL3TT1AD	9KL3TT10	8127568
		B1VC06	J8D250391-6	KL3T01AA	9KL3T010	8127574
		B1VC06	J8D250391-6	KL3T01AC	9KL3T010	8127567
		B1VC06	J8D250391-6	KL3T01AD	9KL3T010	8127568
		B1VBY8	J8D250391-7	KL3T41AA	9KL3T410	8127574
		B1VBY8	J8D250391-7	KL3T41AC	9KL3T410	8127567
		B1VBY8	J8D250391-7	KL3T41AD	9KL3T410	8127568
		B1VC12	J8D250391-8	KL3T71AA	9KL3T710	8127574
		B1VC12	J8D250391-8	KL3T71AC	9KL3T710	8127567
		B1VC12	J8D250391-8	KL3T71AD	9KL3T710	8127568
		B1VC00	J8D250391-9	KL3T81AA	9KL3T810	8127574
		B1VC00	J8D250391-9	KL3T81AC	9KL3T810	8127567
		B1VC00	J8D250391-9	KL3T81AD	9KL3T810	8127568
	I08-036	B1VC58	J8E010311-1	KMEX81AA	9KMEX810	8127574
		B1VC58	J8E010311-1	KMEX81AC	9KMEX810	8127573

Comments:

Report Nbr: 39309

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05387	I08-036	B1VC58	J8E010311-1	KMEX81AD	9KMEX810	8127566
		B1V652	J8E010311-2	KME0J1AA	9KME0J10	8122529
		B1VC56	J8E010311-3	KME0L1AA	9KME0L10	8127574
		B1VC56	J8E010311-3	KME0L1AC	9KME0L10	8127573
		B1VC56	J8E010311-3	KME0L1AD	9KME0L10	8127566
		B1V630	J8E010311-4	KME0M1AA	9KME0M10	8127574
		B1V630	J8E010311-4	KME0M1AC	9KME0M10	8127573
		B1V630	J8E010311-4	KME0M1AD	9KME0M10	8127566
	W08-004	B1V630	J8E010311-4	KME0M1AE	9KME0M10	8127570
		B1V077	J8E010319-1	KME1C1AA	9KME1C10	8127567
		B1V077	J8E010319-1	KME1C1AC	9KME1C10	8127568
		BITJT3	J8E010323-1	KME2D1AA	9KME2D10	8127565
	I08-028	BITJT3	J8E010323-1	KME2D1AC	9KME2D10	8127566
		BITJT2	J8E010323-2	KME2L1AA	9KME2L10	8127565
		BITJT2	J8E010323-2	KME2L1AC	9KME2L10	8127566

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

June 16, 2008

Attention: Steve Trent

SAF Number	:	I08-025, I08-036, I08-028, W08-004
Date SDG Closed	:	May 1, 2008
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05387
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between April 25, 2008 and May 1, 2008 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

<u>PGW ID#</u>	<u>STLR ID#</u>	<u>DATE OF RECEIPT</u>	<u>MATRIX</u>
B1VC05	KL3TJ	4/25/08	WATER
B1VC26	KL3TM	4/25/08	WATER
B1VC04	KL3TN	4/25/08	WATER
B1VC28	KL3TQ	4/25/08	WATER
B1VC27	KL3TT	4/25/08	WATER
B1VC06	KL3T0	4/25/08	WATER
B1VBY8	KL3T4	4/25/08	WATER
B1VC12	KL3T7	4/25/08	WATER
B1VC00	KL3T8	4/25/08	WATER
B1VC13	KL3T9	4/25/08	WATER
B1VC10	KL3VA	4/25/08	WATER
B1VC11	KL3VC	4/25/08	WATER
B1VC20	KL3VD	4/25/08	WATER
B1VC58	KMEX8	5/01/08	WATER
B1VC56	KME0L	5/01/08	WATER

Fluor Hanford
June 16, 2008

B1V630	KME0M	5/01/08	WATER
B1V652	KME0J	5/01/08	WATER
B1V077	KME1C	4/30/08	WATER
B1TJT3	KME2D	5/01/08	WATER
B1VJT2	KME2L	5/01/08	WATER

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014

Gross Beta by method RICH-RC-5014

Strontium-90 by method RICH-RC-5006

Gamma Spectroscopy

Iodine-129 (LL) by method RICH-RC-5025

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065

Tritium by method RICH-RC-5007

Carbon-14 by method RICH-RC-5022

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1VC26) results are within contractual requirements.

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Gross Beta by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1VC04) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1TJT2) results are within contractual requirements.

Gamma Spectroscopy

Iodine-129 (LL) by method RICH-RC-5025:

The LCS, batch blank, samples and sample duplicate (B1TJT3) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:

The batch blank and LCS results had an elevated TSIE on the original count. The batch blank and LCS were agitated again and recounted with acceptable results. The LCS, batch blank, sample, sample duplicate (B1V630), and sample matrix spike (B1V630) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1VC05) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:

The LCS, batch blank, samples and sample duplicate (B1VC58) results are within contractual requirements.

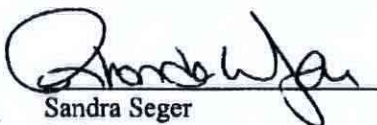
Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The LCS, batch blank, sample, sample duplicate (B1V652), sample matrix spike (B1V652), and matrix spike duplicate (B1V652) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:



Sandra Seger
Project Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	TestAmerica Richland's SOP No.
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, $R = \text{constants} * f(x, y, z, \dots)$. The components (x, y, z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1, 2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation $(\text{Result}/\text{Expected}) - 1$ as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) u_c - Combined Uncertainty.	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, u_c the combined uncertainty. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $Lc = (1.645 * \sqrt{2 * (\text{BkgndCnt}/\text{BkgndCntMin}) / \text{SCntMin}}) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \sqrt{(\text{BkgndCnt}/\text{BkgndCntMin}) / \text{SCntMin}}) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = $(S - D) / [\sqrt{(\text{TPUs}^2 + \text{TPUd}^2)}]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

6/16/2008 11:23:13 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39309 File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KL3T010	B1VC06		MW6-SBB-A1	I08-025	W05387					04/25/2008 09:30				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127574	H-3	10028-17-8	3.95E+03	pCi/L	2.2E+02	2.8E+02		2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/18/2008 20:37	I
8127567	ALPHA	12587-46-1	2.19E+00	pCi/L	1.4E+00	1.5E+00		1.55E+00	100.0	9310_ALPHABETA	1.611E-01	L	06/03/2008 10:49	I
8127568	BETA	12587-47-2	9.03E+00	pCi/L	1.9E+00	2.2E+00		2.89E+00	100.0	9310_ALPHABETA	2.005E-01	L	06/03/2008 07:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KL3T410	B1VBY8		MW6-SBB-A1	I08-025	W05387					04/25/2008 12:06				
Batch	Analyste	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127574	H-3	10028-17-8	4.41E+03	pC/L	2.3E+02	3.0E+02		2.61E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/18/2008 21:59	I
8127567	ALPHA	12587-46-1	1.22E+00	pC/L	1.1E+00	1.2E+00	U	1.65E+00	100.0	9310_ALPHABETA	1.611E-01	L	06/03/2008 10:49	I
8127568	BETA	12587-47-2	8.44E+00	pC/L	1.9E+00	2.2E+00		3.03E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KL3T710	B1VC12		MW6-SBB-A1	I08-025	W05387					04/25/2008 13:40				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127574	H-3	10028-17-8	3.83E+03	pC/L	2.1E+02	2.8E+02		2.63E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/18/2008 23:21	I
8127567	ALPHA	12587-46-1	7.92E-01	pC/L	8.9E-01	9.1E-01	U	1.55E+00	100.0	9310_ALPHABETA	2.003E-01	L	06/03/2008 12:04	I
8127568	BETA	12587-47-2	5.36E+00	pC/L	1.6E+00	1.9E+00		2.80E+00	100.0	9310_ALPHABETA	2.004E-01	L	06/03/2008 07:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KL3T810	B1VC00		MW6-SBB-A1	I08-025	W05387					04/25/2008 09:36				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127574	H-3	10028-17-8	4.78E+03	pC/L	2.3E+02	3.1E+02		2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 00:43	I
8127567	ALPHA	12587-46-1	9.70E-01	pC/L	1.0E+00	1.1E+00	U	1.83E+00	100.0	9310_ALPHABETA	2.00E-01	L	06/03/2008 12:04	I
8127568	BETA	12587-47-2	6.27E+00	pC/L	1.7E+00	1.9E+00		2.87E+00	100.0	9310_ALPHABETA	2.003E-01	L	06/03/2008 07:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KL3T910	B1VC13		MW6-SBB-A1		W05387					04/25/2008 13:16				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127574	H-3	10028-17-8	-6.78E+01	pCi/L	1.0E+02	1.1E+02	U	2.60E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 02:04	I
8127567	ALPHA	12587-46-1	1.15E+00	pCi/L	9.3E-01	9.6E-01	U	1.44E+00	100.0	9310_ALPHABETA	2.002E-01	L	06/03/2008 12:04	I

TestAmerica

rptFeadRadSummaryEdd v3.48

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

6/16/2008 11:23:13 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39309 File Name: h:\Reportdb\edd\Fead\W05387.Edd, h:\Reportdb\edd\Fead\W05387.Edd

8127568	BETA	12587-47-2	6.66E+00	pCi/L	1.7E+00	1.9E+00	2.72E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008	07:56	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*	Distilled Volume	Sample On Date:	Collection Date:				
9KL3TJ10	B1VC05		MW6-SBB-A1	I08-025	W05387					04/25/2008	11:21			
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127574	H-3	10028-17-8	1.94E+03	pCi/L	1.7E+02	2.0E+02	U	2.56E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008	03:26
8127567	ALPHA	12587-46-1	1.01E+00	pCi/L	1.1E+00	1.1E+00	U	1.91E+00	100.0	9310_ALPHABETA	1.849E-01	L	06/03/2008	10:49
8127568	BETA	12587-47-2	7.76E+00	pCi/L	1.9E+00	2.1E+00		3.05E+00	100.0	9310_ALPHABETA	2.00E-01	L	06/03/2008	07:56
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*	Distilled Volume	Sample On Date:	Collection Date:				
9KL3TM10	B1VC26		MW6-SBB-A1	I08-025	W05387					04/25/2008	09:55			
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127574	H-3	10028-17-8	1.39E+03	pCi/L	1.5E+02	1.8E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008	06:10
8127567	ALPHA	12587-46-1	1.08E+00	pCi/L	9.6E-01	9.9E-01	U	1.69E+00	100.0	9310_ALPHABETA	1.562E-01	L	06/03/2008	13:10
8127568	BETA	12587-47-2	5.99E+00	pCi/L	1.7E+00	1.8E+00		2.78E+00	100.0	9310_ALPHABETA	1.999E-01	L	06/03/2008	07:56
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*	Distilled Volume	Sample On Date:	Collection Date:				
9KL3TN10	B1VC04		MW6-SBB-A1	I08-025	W05387					04/25/2008	13:07			
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127574	H-3	10028-17-8	6.03E+02	pCi/L	1.3E+02	1.4E+02	U	2.61E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008	07:32
8127567	ALPHA	12587-46-1	9.09E-01	pCi/L	9.1E-01	9.3E-01	U	1.68E+00	100.0	9310_ALPHABETA	1.252E-01	L	06/03/2008	13:10
8127568	BETA	12587-47-2	2.81E+00	pCi/L	1.4E+00	1.5E+00		2.71E+00	100.0	9310_ALPHABETA	2.005E-01	L	06/03/2008	07:56
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*	Distilled Volume	Sample On Date:	Collection Date:				
9KL3TQ10	B1VC28		MW6-SBB-A1	I08-025	W05387					04/25/2008	10:46			
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127574	H-3	10028-17-8	1.25E+03	pCi/L	1.5E+02	1.7E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008	13:02
8127567	ALPHA	12587-46-1	9.41E-01	pCi/L	9.1E-01	9.3E-01	U	1.55E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008	10:49
8127568	BETA	12587-47-2	3.93E+00	pCi/L	1.5E+00	1.6E+00		2.73E+00	100.0	9310_ALPHABETA	2.004E-01	L	06/03/2008	07:56
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*	Distilled Volume	Sample On Date:	Collection Date:				
9KL3TT10	B1VC27		MW6-SBB-A1	I08-025	W05387					04/25/2008	10:05			
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127574	H-3	10028-17-8	3.73E+03	pCi/L	2.1E+02	2.7E+02		2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008	14:24

TestAmerica

rptFeadRadSummaryEdd v3.48

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

6/16/2008 11:23:13 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39309 File Name: h:\Reportdb\dd\Fead\VRad\W05387.Edd, h:\Reportdb\dd\Fead\VRad\39309.Edd

12587-46-1	ALPHA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	ALPHA	9KLV3A10	MW6-SBB-A1	I08-025	W05387					04/25/2008 10:15				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	5.03E+03	pCi/L	2.4E+02	3.2E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 15:46	I
		8127567	1.88E+00	pCi/L	1.2E+00	1.3E+00		1.50E+00	100.0	9310_ALPHABETA	1.922E-01	L	06/03/2008 12:04	I
		8127568	8.00E+00	pCi/L	1.8E+00	2.1E+00		2.78E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-47-2	ALPHA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	ALPHA	9KLV3C10	MW6-SBB-A1	I08-025	W05387					04/25/2008 11:21				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	-9.58E+01	pCi/L	1.0E+02	1.1E+02	U	2.63E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 17:07	I
		8127567	7.97E-01	pCi/L	7.7E-01	7.9E-01	U	1.11E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 12:04	I
		8127568	4.70E+00	pCi/L	1.6E+00	1.8E+00		2.69E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-46-1	ALPHA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	ALPHA	9KLV3D10	MW6-SBB-A1	I08-025	W05387					04/25/2008 12:09				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	2.04E+03	pCi/L	1.7E+02	2.1E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 18:29	I
		8127567	1.14E+00	pCi/L	1.0E+00	1.1E+00	U	1.53E+00	100.0	9310_ALPHABETA	1.666E-01	L	06/03/2008 12:04	I
		8127568	6.53E+00	pCi/L	1.8E+00	2.0E+00		2.93E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-47-2	BETA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	BETA	9KME0L10	MW6-SBB-A1	I08-036	W05387					05/01/2008 08:48				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	2.55E+01	pCi/L	1.1E+02	1.2E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 19:51	I
		8127573	5.13E+00	pCi/L	3.6E+00	4.3E+00	U	8.18E+00	100.0	C14_LSC	2.00E-01	L	06/04/2008 00:17	I
		8127566	2.37E-01	pCi/L	3.3E-01	3.4E-01	U	7.15E-01	77.9	SRISO_SEP_PRE	1.001E+00	L	06/11/2008 05:40	I
MW6-SBB-A1 I08-036 W05387														
12587-46-1	ALPHA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	ALPHA	9KLV3A10	MW6-SBB-A1	I08-025	W05387					04/25/2008 10:15				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	5.03E+03	pCi/L	2.4E+02	3.2E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 15:46	I
		8127567	1.88E+00	pCi/L	1.2E+00	1.3E+00		1.50E+00	100.0	9310_ALPHABETA	1.922E-01	L	06/03/2008 12:04	I
		8127568	8.00E+00	pCi/L	1.8E+00	2.1E+00		2.78E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-47-2	BETA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	BETA	9KLV3C10	MW6-SBB-A1	I08-025	W05387					04/25/2008 11:21				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	-9.58E+01	pCi/L	1.0E+02	1.1E+02	U	2.63E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 17:07	I
		8127567	7.97E-01	pCi/L	7.7E-01	7.9E-01	U	1.11E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 12:04	I
		8127568	4.70E+00	pCi/L	1.6E+00	1.8E+00		2.69E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-46-1	ALPHA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	ALPHA	9KLV3D10	MW6-SBB-A1	I08-025	W05387					04/25/2008 12:09				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	2.04E+03	pCi/L	1.7E+02	2.1E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 18:29	I
		8127567	1.14E+00	pCi/L	1.0E+00	1.1E+00	U	1.53E+00	100.0	9310_ALPHABETA	1.666E-01	L	06/03/2008 12:04	I
		8127568	6.53E+00	pCi/L	1.8E+00	2.0E+00		2.93E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-47-2	BETA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	BETA	9KME0L10	MW6-SBB-A1	I08-036	W05387					05/01/2008 08:48				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	2.55E+01	pCi/L	1.1E+02	1.2E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 19:51	I
		8127573	5.13E+00	pCi/L	3.6E+00	4.3E+00	U	8.18E+00	100.0	C14_LSC	2.00E-01	L	06/04/2008 00:17	I
		8127566	2.37E-01	pCi/L	3.3E-01	3.4E-01	U	7.15E-01	77.9	SRISO_SEP_PRE	1.001E+00	L	06/11/2008 05:40	I
MW6-SBB-A1 I08-036 W05387														
12587-46-1	ALPHA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	ALPHA	9KLV3A10	MW6-SBB-A1	I08-025	W05387					04/25/2008 10:15				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	5.03E+03	pCi/L	2.4E+02	3.2E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 15:46	I
		8127567	1.88E+00	pCi/L	1.2E+00	1.3E+00		1.50E+00	100.0	9310_ALPHABETA	1.922E-01	L	06/03/2008 12:04	I
		8127568	8.00E+00	pCi/L	1.8E+00	2.1E+00		2.78E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-47-2	BETA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	BETA	9KLV3C10	MW6-SBB-A1	I08-025	W05387					04/25/2008 11:21				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	-9.58E+01	pCi/L	1.0E+02	1.1E+02	U	2.63E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 17:07	I
		8127567	7.97E-01	pCi/L	7.7E-01	7.9E-01	U	1.11E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 12:04	I
		8127568	4.70E+00	pCi/L	1.6E+00	1.8E+00		2.69E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-46-1	ALPHA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	ALPHA	9KLV3D10	MW6-SBB-A1	I08-025	W05387					04/25/2008 12:09				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	2.04E+03	pCi/L	1.7E+02	2.1E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 18:29	I
		8127567	1.14E+00	pCi/L	1.0E+00	1.1E+00	U	1.53E+00	100.0	9310_ALPHABETA	1.666E-01	L	06/03/2008 12:04	I
		8127568	6.53E+00	pCi/L	1.8E+00	2.0E+00		2.93E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-47-2	BETA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	BETA	9KME0L10	MW6-SBB-A1	I08-036	W05387					05/01/2008 08:48				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	2.55E+01	pCi/L	1.1E+02	1.2E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 19:51	I
		8127573	5.13E+00	pCi/L	3.6E+00	4.3E+00	U	8.18E+00	100.0	C14_LSC	2.00E-01	L	06/04/2008 00:17	I
		8127566	2.37E-01	pCi/L	3.3E-01	3.4E-01	U	7.15E-01	77.9	SRISO_SEP_PRE	1.001E+00	L	06/11/2008 05:40	I
MW6-SBB-A1 I08-036 W05387														
12587-46-1	ALPHA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	ALPHA	9KLV3A10	MW6-SBB-A1	I08-025	W05387					04/25/2008 10:15				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	5.03E+03	pCi/L	2.4E+02	3.2E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 15:46	I
		8127567	1.88E+00	pCi/L	1.2E+00	1.3E+00		1.50E+00	100.0	9310_ALPHABETA	1.922E-01	L	06/03/2008 12:04	I
		8127568	8.00E+00	pCi/L	1.8E+00	2.1E+00		2.78E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-47-2	BETA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	BETA	9KLV3C10	MW6-SBB-A1	I08-025	W05387					04/25/2008 11:21				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	-9.58E+01	pCi/L	1.0E+02	1.1E+02	U	2.63E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 17:07	I
		8127567	7.97E-01	pCi/L	7.7E-01	7.9E-01	U	1.11E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 12:04	I
		8127568	4.70E+00	pCi/L	1.6E+00	1.8E+00		2.69E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-46-1	ALPHA	Client Id:	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
8127567	ALPHA	9KLV3D10	MW6-SBB-A1	I08-025	W05387					04/25/2008 12:09				
8127568	BETA	Batch	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
		8127574	2.04E+03	pCi/L	1.7E+02	2.1E+02	U	2.62E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/19/2008 18:29	I
		8127567	1.14E+00	pCi/L	1.0E+00	1.1E+00	U	1.53E+00	100.0	9310_ALPHABETA	1.666E-01	L	06/03/2008 12:04	I
		8127568	6.53E+00	pCi/L	1.8E+00	2.0E+00		2.93E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 07:56	I
MW6-SBB-A1 I08-025 W05387														
12587-47-2	BETA	Client Id:	Contract Nbr	SAF Nbr	Sdg N									

TestAmerica

rptFeadRadSummaryEdd v3.48

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual - Analyte was found in the associated laboratory blank above the MDC.

6/16/2008 11:23:13 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39309 File Name: h:\Reportdb\edd\Fead\VARad\W05387 Edd, h:\Reportdb\edd\Fead\VARad\39309.Edd

Batch	Sample Id:	Client	Test User	Contract Nbr	SAF Nbr	Sdg Nbr	QC Type	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:
8127574	H-3										
8127573	C-14										
8127566	SR-90										
8127570	TC-99										

Batch	Sample Id:	Client	Test User	Contract Nbr	SAF Nbr	Sdg Nbr	QC Type	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:
8127567	ALPHA										
8127568	BETA										

Batch	Sample Id:	Client	Test User	Contract Nbr	SAF Nbr	Sdg Nbr	QC Type	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:
8127565	I-129L										
8127566	SR-90										

Batch	Sample Id:	Client	Test User	Contract Nbr	SAF Nbr	Sdg Nbr	QC Type	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:
8127565	I-129L										
8127566	SR-90										

Batch	Sample Id:	Client	Test User	Contract Nbr	SAF Nbr	Sdg Nbr	QC Type	Moisture/ Solids%:	Distilled Volume	Sample On Date:	Collection Date:
8127574	H-3										
8127573	C-14										
8127566	SR-90										

TestAmerica

rptFeadRadSummaryEdd v3.48

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

Monday, June 16, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05387 Edd, h:\Reportdb\edd\Fead\I\Rad\39309 Edd

Lab Sample Id: KMMW21AB

Sdg/Rept Nbr: W05387

39309

Collection Date: 05/01/2008 10:29

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/01/2008

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spt Conc/ %Rec	Analy Method	Aliq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ	FSuffix	RTyp
8127573	C-14	3.33E+00	pCi/L	4.2E+00	U	8.18E+00	100.0		C14_LSC	2.00E-01	06/03/2008					BB	H
BLK	14762-75-5			3.5E+00							21:26						

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

Monday, June 16, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\IVRad\W05387.Edd, h:\Reportdb\edd\Fead\IVRad\39309.Edd

Lab Sample Id: KMMW71AB

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/25/2008 11:21

Client Id: NA

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 04/25/2008

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127574	H-3	-4.78E+01	pCi/L	1.1E+02	U	2.59E+02	100.0		906.0_H3_LSC	5.00E-03	05/18/2008				D
BLK	10028-17-8			1.0E+02						L	17:53				

Contract Nbr
MW6-SBB-A19981

Distilled Volume

File Id

FSuffix RTyp
BD H

TestAmerica

rpt\FeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

Monday, June 16, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id: KMMW71DX

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/25/2008 11:21

Client Id: NA

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 04/25/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
	MW6-SBB-A19981								BF	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127574	H-3	1.34E+02	pCi/L	1.3E+02	U	2.79E+02	100.0		908.0_H3_LSC	5.00E-03	05/19/2008				D
BLK	10028-17-8			1.2E+02						L	10:17				

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

3

Monday, June 16, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\IVRad\W05387.Edd, h:\Reportdb\edd\Fead\IVRad\39309.Edd

Lab Sample Id: KMMWC1AB

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/29/2008 13:28

Client Id: NA

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
	MW6-SBB-A19981								BH	H

Batch # /
Qc Type 8127565
BLK 15046-84-1

Result/
Orig Rst 8.25E-02

Unit pCi/L
Tot/Cnt 1.4E-01
Uncert 2S 1.4E-01

Qu-
al U 2.79E-01

MDC 97.0
Tracer Yield

Spk Concl/
%Rec

Analy
Method I129LL_SEP_L

Aliq
Size/ 3.9769E+00

Date/Time
Analyzed 06/06/2008

RPD/
UCL RER/
UCL LCS
LCL/UCL Typ D

12:19

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

4

Monday, June 16, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id: KMMWE1AB

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/29/2008 13:28

Client Id: NA

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
	MW6-SBB-A19981								BJ	H

Batch # /
Qc Type
8127566 SR-90
BLK 10098-97-2

Result/
Orig Rst
-8.20E-02

Unit
pCi/L 2.1E-01
2.1E-01

Qu-
al U 5.01E-01

MDC 72.4

Tracer
Yield 72.4

Spk Conc/
%Rec

Analy
Method

Aliq
Size/
SRISO_SEP_P 1.0001E+00

Date/Time
Analyzed 06/11/2008

RPD/
UCL

RER/
UCL

LCS
LCL/UCL Typ

D 05:40

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

5

Monday, June 16, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id: KMMWH1AB

Sdg/Rept Nbr: W05387

Collection Date: 04/25/2008 09:55

Client Id: NA

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 04/25/2008

SAF Nbr Contract Nbr
MW6-SBB-A19981

Test User

Case Nbr SAS Nbr

Suffix

Decant

Distilled Volume

File Id

FSuffix RType
BL HBatch # /
Qc Type 8127567 ALPHA
BLK 12587-46-1Result/
Orig Rst 1.03E-01Unit pCi/L 3.5E-01
Tot/Cnt Uncert 2S 3.5E-01Qu-
al U 8.17E-01Tracer
Yield 100.0Spk Concl
%RecAnaly
Method 9310_ALPHAAliq
Size/ 2.005E-01
LDate/Time
Analyzed 06/03/2008
11:49RPD/
UCLRER/
UCLLCS R
LCU/UCL Typ D

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

6

Monday, June 16, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VARad\W05387.Edd, h:\Reportdb\edd\Fead\VARad\39309.Edd

Lab Sample Id: KMMWP1AB

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/25/2008 13:07

Client Id: NA

Matrix: WATER

WATER

Sample On Date: 04/25/2008

Moisture/Solids%*:

QC Type: BLK

Received Date: 04/25/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType							
8127568	MW6-SBB-A19981								BN	H							
BLK	12587-47-2																
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS	R LCL/UCL	Type
8127568	BETA	8.89E-01	pCi/L	1.3E+00	1.3E+00	U	2.79E+00	100.0		9310_ALPHA	2.001E-01	06/03/2008					D
											L	07:56					

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

7

Monday, June 16, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id: KMMWW2AB

Sdg/Rept Nbr: W05387 39309

Collection Date: 05/01/2008 09:36

Client Id: NA

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BP	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCU/UCL	R Type
8155256 BLK	TC-99 14133-76-7	-1.27E+00	pCi/L	5.9E+00 4.1E+00	U	1.01E+01	100.0		TC99_ETVDSK	1.2574E-01 L	06/04/2008 18:11				D

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

Monday, June 16, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39308.Edd

Lab Sample Id: KMMW21CS

Sdg/Rept Nbr: W05387

39309

Collection Date: 05/01/2008 10:29

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt / CAS#	Result / Orig Rst	Unit	Tot/Cnt	Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc / %Rec	Analy Method	Aliq Size /	Date/Time Analyzed	RPD / UCL	RER / UCL	LCS / LCL/UCL	R Type
8127573	C-14	4.30E+01	pCi/L	5.7E+00		8.18E+00	100.0		4.58E+01	C14_LSC	2.00E-01	06/03/2008			70	D
BS	14762-75-5			4.7E+00					93.8		L	22:09			130	

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

9

Monday, June 16, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id: KMMW71CS

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/25/2008 11:21

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 04/25/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
	MW6-SBB-A19981								BE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127574	H-3	2.29E+03	pCi/L	2.2E+02		2.62E+02	100.0	2.71E+03	906.0 H3_LSC	5.00E-03	05/18/2008			70	D
BS	10028-17-8			1.8E+02				84.6		L	19:15			130	

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

10

Monday, June 16, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VARad\W05387.Edd, h:\Reportdb\edd\Fead\VARad\39309.Edd

Lab Sample Id: KMMW71EM Sdg/Rept Nbr: W05387 39309 Collection Date: 04/25/2008 11:21

Client Id: NA Matrix: WATER WATER Sample On Date:

Moisture/Solids%*: QC Type: BS Received Date: 04/25/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
	MW6-SBB-A19981								BG	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analyt Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127574	H-3	2.44E+03	pCi/L	2.3E+02		2.75E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	05/19/2008			70	D
BS	10028-17-8			1.9E+02				90.0		L	11:40			130	

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

//

Monday, June 16, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\IVRad\W05387.Edd, h:\Reportdb\edd\Fead\IVRad\39309.Edd

Lab Sample Id: KMMWC1CS

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/29/2008 13:28

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/01/2008

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127565	I-129L	1.02E+01	pCi/L	1.3E+00	3.80E-01	94.7	9.67E+00	105.9	I129LL_SEP_L	3.994E+00	06/06/2008	70	130		D
BS	15046-84-1			1.3E+00						L	12:19				

Contract Nbr
MW6-SBB-A19981

Distilled Volume

File Id

FSuffix RType
BI H

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

12

Monday, June 16, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id: KMMWE1CS

Collection Date: 04/29/2008 13:28

Client Id: NA

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
									BK	H					
Batch # / Qc Type	Analvt CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Type
8127566 SR-90		1.33E+01	pCi/L	2.1E+00		4.73E-01	76.2	1.35E+01	SRISO_SEP_P	1.0004E+00	06/11/2008			70	D
BS 10098-97-2				7.9E-01				98.7		L	05:40			130	

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

13

Monday, June 16, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VARad\W05387.Edd, h:\Reportdb\edd\Fead\VARad\39309.Edd

Lab Sample Id: KMMWH1CS

Client Id: NA

Moisture/Solids%*: BS

Sdg/Rept Nbr: W05387

Matrix: WATER

Collection Date: 04/25/2008 09:55

QC Type: BS

Sample On Date: 04/25/2008

Received Date: 04/25/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp								
BS	12587-46-1								BM	H								
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Uncert 2S	Qu- al	MDC	Tracer	Yield	Spk Concl	%Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS R	LCL/UCL Typ
8127567	ALPHA	2.01E+01	pCi/L	4.6E+00	2.1E+00	9.23E-01	100.0	9310_ALPHA	2.001E-01	06/03/2008	11:49	70	D	130				

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

14

Monday, June 16, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id: KMMWP1CS

Sdg/Rept Nbr: W05387

Collection Date: 04/25/2008 13:07

Client Id: NA

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 04/25/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
	MW6-SBB-A19981								BO	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spt Concl/ %Rec	Analyt Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS	R
8127568	BETA	2.27E+01	pCi/L	3.9E+00		2.55E+00	100.0	2.24E+01	9310_ALPHAB	2.005E-01	06/03/2008	70	70	70	D
BS	12587-47-2			2.4E+00				101.1		L	07:56			130	

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

15

Monday, June 16, 2008

TestAmerica QC Control Sample Report

Lab Code: TARI

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VARad\W05387.Edd, h:\Reportdb\edd\Fead\VARad\39309.Edd

Lab Sample Id: KMMWW2CS

Sdg/Rept Nbr: W05387 39309

Collection Date: 05/01/2008 09:36

Client Id: NA

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
	MW6-SBB-A19981								BQ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spt Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCS	R LCL/UCL	Type
8155256	TC-99	5.03E+02	pCi/L	3.6E+01		1.01E+01	100.0	5.33E+02	TC99_ETVDSK	1.255E-01	06/04/2008			75		D
BS	14133-76-7			1.3E+01				94.3		L	17:09			125		

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

16

Monday, June 16, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\dd\Fead\IVRad\W05387.Edd, h:\Reportdb\dd\Fead\IVRad\39309.Edd

Lab Sample Id: KL3TJ1ER

Client Id: B1VC05

Moisture/Solids%*:

Sdg/Rept Nbr: W05387

Matrix: WATER

QC Type: DUP

39309

WATER

Received Date: 04/25/2008

Collection Date: 04/25/2008 11:21

Sample On Date:

SAF Nbr 108-025 Contract Nbr MW6-SBB-A19981 Test User Case Nbr SAS Nbr Suffix Decant Distilled Volume File Id FSuffix RType AT H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Uncert 2S	Qu- al	MDC	Yield	Tracer	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCU/UCL	R Type
8127574 H-3		1.83E+03	pCi/L	2.0E+02	1.7E+02	2.61E+02	100.0	100.0			906.0_H3_LSC	5.00E-03	05/19/2008	6.0	0.8		D
DUP	10028-17-8	1.94E+03										L	04:48	20.0	3		

TestAmerica

rp\FeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Monday, June 16, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id: KL3TM1ER

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/25/2008 09:55

Client Id: B1VC26

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 04/25/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
I08-025	MW6-SBB-A19981								AU	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Type
8127567 DUP	ALPHA 12587-46-1	1.93E+00 1.08E+00	pCi/L	1.3E+00 1.2E+00		1.92E+00	100.0		9310_ALPHA	1.563E-01	06/03/2008 13:10	56.3	0.9		D
												20.0	3		

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

Monday, June 16, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id: KL3TN1ER

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/25/2008 13:07

Client Id: B1VC04

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 04/25/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
108-025	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Type
8127568	BETA	2.69E+00	pCi/L	1.5E+00		2.68E+00	100.0		9310_ALPHA	2.004E-01	06/03/2008	4.4	0.1		D
DUP	12587-47-2	2.81E+00		1.4E+00							07:56	20.0	3		

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

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Monday, June 16, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\IVRad\W05387.Edd, h:\Reportdb\edd\Fead\IVRad\39309.Edd

Lab Sample Id: KME0M1GR

Sdg/Rept Nbr: W05387

39309

Collection Date: 05/01/2008 09:36

Client Id: B1V630

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
108-036	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analyt Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Type
8127570	TC-99	6.54E+00	pCi/L	6.0E+00	U	9.61E+00	100.0		TC99_ETVDSK	1.255E-01	06/03/2008	64.4	0.7		D
DUP	14133-76-7	3.36E+00		4.2E+00						L	01:39	20.0	3		

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

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Monday, June 16, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05387.Edd, h:\Reportdb\edd\Fead\VRad\39309.Edd

Lab Sample Id: KME2D1DR

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/29/2008 13:28

Client Id: B1TJT3

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
108-028	MW6-SBB-A19981								AY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Type
8127565	1-129L	4.60E-01	pCi/L	1.8E-01	U	3.96E-01	94.9		I129LL_SEP_L	3.793E+00	06/06/2008	7.6	0.3		D
DUP	15046-84-1	4.26E-01		1.8E-01						L	10:27	20.0	3		

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

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Monday, June 16, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Feed\VRad\W05387.Edd, h:\Reportdb\edd\Feed\VRad\39309.Edd

Lab Sample Id: KME2L1DR

Sdg/Rept Nbr: W05387

39309

Collection Date: 04/29/2008 13:28

Client Id: B1TJT2

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
108-028	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Allq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Type
8127566	SR-90	3.77E-02	pCi/L	3.0E-01	U	6.61E-01	76.0		SRISO_SEP_P	9.9657E-01	06/11/2008	90.2	0.3		D
DUP	10098-97-2	9.98E-02		1.5E-01						L	05:40	20.0	3		

TestAmerica

rptFeedRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

Monday, June 16, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\W05387.Edd, h:\Reportdb\edd\Fead\W05387.Edd

Lab Sample Id: KMEX81ER

Client Id: B1VC58

Moisture/Solids%*:

Sdg/Rept Nbr: W05387

Matrix: WATER

QC Type: DUP

Collection Date: 05/01/2008 10:29

Sample On Date:

Received Date: 05/01/2008

SAF Nbr Contract Nbr
108-036 MW6-SBB-A19981

Distilled Volume

File Id

FSuffix RType
BA H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Type
8127573	C-14	2.04E+02	pCi/L	1.2E+01	8.18E+00	100.0			C14_LSC	2.00E-01	06/03/2008	19.1	4.3		D
DUP	14762-75-5	1.68E+02		7.9E+00						L	23:34	20.0	3		

TestAmerica

rpt\FeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

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Monday, June 16, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VARad\W05387.Edd, h:\Reportdb\edd\Fead\VARad\39309.Edd

Lab Sample Id: KME0M1FW

Sdg/Rept Nbr: W05387 39309

Collection Date: 05/01/2008 09:36

Client Id: B1V630

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
I08-036	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LC/UCL	R Type
8127570	TC-99	3.16E+03	pCi/L	1.9E+02		9.48E+00	100.0	3.56E+03	TC99_ETVDSK	1.2576E-01	06/03/2008			60	D
MS	14133-76-7			3.0E+01				88.7		L	00:36			140	

TestAmerica

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual- Analyte was found in the associated laboratory blank above the MDC.

TA Richland
Hexavalent Chromium - Water

TestAmerica

Analyst: L. Dinh		SOP Information		BATCH #	8122529
Start Date:	5/1/2008	RICH-WC-5003		SDG #	
Start Time:		Revision 7		Matrix	Water
End Date:	5/1/2008				
End Time:					
Analyst Signature: <i>[Signature]</i>		MDL (mg/L)		Instrument Information	
		0.002		Instrument: Hach DR2010	
				Wavelength: 540	
				R Squared: 0.99990	
				Slope: 1.87474	
				Intercept: 0.00796	
Date: 05/01/08					
Standard Volume (mL):		5/1/2008			
Date of Curve:					

Calibration Information:		ICV Information:		LCS Information:		Matrix Spike Information:	
Cr-08-00087		Cr-08-00088		Cr-08-00087		Cr-08-00087	
05/01/08		05/01/08		05/01/08		05/01/08	
50		50		50		50	
05/02/08		05/02/08		05/02/08		05/02/08	
70,190		190		190		190	
Volume Used ()		Expected Value		1.00		0.50000	
				0.50		0.26316	

Expected values are only amounts added in mg and not final concentrations

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.915	0.000	0.915	1	0.4838	0.484	96.76%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
KME3D1AA	n/a	Prep Blank	100.000	-0.001		-0.001	1	<MDL	<MDL	
KME3D1AC	n/a	LCS	100.000	0.947		0.947	1	0.5009	0.501	100.18%
KME0J1AA	B1V652'	Sample	100.000	0.148		0.148	1	0.0747	0.075	
KME0J1AC-S	B1V652-MS	MS	100.000	0.646		0.646	1	0.3403	0.3403	100.94%
KME0J1AD-D	B1V652-MSD	MSD	100.000	0.647		0.647	1	0.3409	0.3409	101.14%
KME0J1AE-X	B1V652-DUP	Duplicate	100.000	0.144		0.144	1	0.0726	0.073	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.912		0.912	1	0.4822	0.482	96.44%
n/a	n/a	CCB	100.000	-0.002		-0.002	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

Lot No., Due Date: J8D250391, J8E010319; 06/16/2008
Client, Site: 384868; PGW 615 HANFORD HANFORD
QC Batch No., Method Test: 8127567; RALPHA-A Alpha by GPC-Am
SDG, Matrix: W05387; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No N/A

✓

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

✓

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A

✓

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

✓

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

✓

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A

✓

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A

✓

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A

✓

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A

✓

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A

✓

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes No N/A

✓

4.2 Were analysis volumes entered correctly? Yes No N/A

✓

4.3 Were Yields entered correctly? Yes No N/A

✓

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A

✓

4.5 Were raw counts reviewed for anomalies? Yes No N/A

✓

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A

✓

5.2 Are all required forms filled out? Yes No N/A

✓

5.3 Was the correct methodology used? Yes No N/A

✓

5.4 Was transcription checked? Yes No N/A

✓

5.5 Were all calculations checked at a minimum frequency? Yes No N/A

✓

5.6 Are worksheet entries complete and correct? Yes No N/A

✓

6.0 Comments on any No response:

First Level Review

John J. [Signature]

Date

6-4-8

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8127567

Review Item	Yes (✓)	No (✓)	NA (✓)
A. Sample Analysis			✓
1. Are the sample yields within acceptance criteria?			
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓	✓ <i>2/4/18</i>	
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			✓
1. Are all Non-conformances included and noted?			
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: *Erin C. Ford* Date: *6/4/18*

Lot No., Due Date: J8D250391, J8E010319; 06/16/2008
Client, Site: 384868; PGW 615 HANFORD HANFORD
QC Batch No., Method Test: 8127568; RBETA-SR Beta by GPC-Sr/Y
SDG, Matrix: W05387; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No N/A

☒ Yes ☐ No ☐ N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

☒ Yes ☐ No ☐ N/A

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A

☒ Yes ☐ No ☐ N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

☒ Yes ☐ No ☐ N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

☒ Yes ☐ No ☒ N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A

☒ Yes ☐ No ☐ N/A

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A

☒ Yes ☐ No ☐ N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A

☒ Yes ☐ No ☒ N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A

☒ Yes ☐ No ☐ N/A

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A

☒ Yes ☐ No ☐ N/A

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes No N/A

☒ Yes ☐ No ☐ N/A

4.2 Were analysis volumes entered correctly? Yes No N/A

☒ Yes ☐ No ☐ N/A

4.3 Were Yields entered correctly? Yes No N/A

☒ Yes ☐ No ☒ N/A

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A

☒ Yes ☐ No ☒ N/A

4.5 Were raw counts reviewed for anomalies? Yes No N/A

☒ Yes ☐ No ☐ N/A

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A

☒ Yes ☐ No ☒ N/A

5.2 Are all required forms filled out? Yes No N/A

☒ Yes ☐ No ☐ N/A

5.3 Was the correct methodology used? Yes No N/A

☒ Yes ☐ No ☐ N/A

5.4 Was transcription checked? Yes No N/A

☒ Yes ☐ No ☐ N/A

5.5 Were all calculations checked at a minimum frequency? Yes No N/A

☒ Yes ☐ No ☒ N/A

5.6 Are worksheet entries complete and correct? Yes No N/A

☒ Yes ☐ No ☐ N/A

6.0 Comments on any No response:

First Level Review

John N. N...

Date

6.3.8

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8127568

Review Item	Yes (✓)	No (✓)	NA (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Erika Ford Date: 6/4/8

Lot No., Due Date: J8E010311, J8E010323; 06/16/2008
Client, Site: 384868; PGW 615 HANFORD HANFORD
QC Batch No., Method Test: 8127566; RSR85907 Sr-85/90 by GPC-7
SDG, Matrix: W05387; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?

Yes No N/A

**2.0 QC Batch**

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?

Yes No N/A



2.2 Are the QC appropriate for the analysis included in the batch?

Yes No N/A



2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?

Yes No N/A



2.4 Does the Worksheets include a Tracer Vial label for each sample?

Yes No N/A

**3.0 QC & Samples**

3.1 Is the blank results, yield, and MDA within contract limits?

Yes No N/A



3.2 Is the LCS result, yield, and MDA within contract limits?

Yes No N/A



3.3 Are the MS/MSD results, yields, and MDA within contract limits?

Yes No N/A



3.4 Are the duplicate result, yields, and MDAs within contract limits?

Yes No N/A



3.5 Are the sample yields and MDAs within contract limits?

Yes No N/A

**4.0 Raw Data**

4.1 Were results calculated in the correct units?

Yes No N/A



4.2 Were analysis volumes entered correctly?

Yes No N/A



4.3 Were Yields entered correctly?

Yes No N/A



4.4 Were spectra reviewed/meet contractual requirements?

Yes No N/A



4.5 Were raw counts reviewed for anomalies?

Yes No N/A

**5.0 Other**

5.1 Are all nonconformances included and noted?

Yes No N/A



5.2 Are all required forms filled out?

Yes No N/A



5.3 Was the correct methodology used?

Yes No N/A



5.4 Was transcription checked?

Yes No N/A



5.5 Were all calculations checked at a minimum frequency?

Yes No N/A



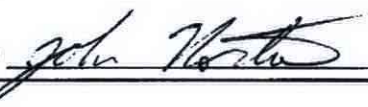
5.6 Are worksheet entries complete and correct?

Yes No N/A



6.0 Comments on any No response:

First Level Review



Date

6-11-8

TAL Richland

QAS_RADCALCv4.8.33

TESTAMERICA

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8127566

Review Item	Yes (✓)	No (✓)	NA (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Erika Jones Date: 10/11/18

Lot No., Due Date: J8E010323; 06/16/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8127565; RGAMLEPS Gamma by LEPS
SDG, Matrix: W05387; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No N/A

✓

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

✓

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A

✓

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

✓

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

✓

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A

✓

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A

✓

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A

✓

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A

✓

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A

✓

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes No N/A

✓

4.2 Were analysis volumes entered correctly? Yes No N/A

✓

4.3 Were Yields entered correctly? Yes No N/A

✓

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A

✓

4.5 Were raw counts reviewed for anomalies? Yes No N/A

✓

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A

✓

5.2 Are all required forms filled out? Yes No N/A

✓

5.3 Was the correct methodology used? Yes No N/A

✓

5.4 Was transcription checked? Yes No N/A

✓

5.5 Were all calculations checked at a minimum frequency? Yes No N/A

✓

5.6 Are worksheet entries complete and correct? Yes No N/A

✓

6.0 Comments on any No response:

First Level Review

John V. [Signature]

Date

6-10-8

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8127565

Review Item	Yes (✓)	No (✓)	NA (✓)
A. Sample Analysis			✓
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			✓
1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Erika J. [Signature] Date: 6/10/8

Lot No., Due Date: : PGW J8E010311 6/16/08
Client, Site: PGW
QC Batch No., Method Test: 8155256; TC99
SDG, Matrix: : W05387

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?

Yes No N/A

✓

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?

Yes No N/A

✓

2.2 Are the QC appropriate for the analysis included in the batch?

Yes No N/A

✓

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?

Yes No N/A

✓

2.4 Does the Worksheets include a Tracer Vial label for each sample?

Yes No N/A

✓

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits?

Yes No N/A

✓

3.2 Is the LCS result, yield, and MDA within contract limits?

Yes No N/A

✓

3.3 Are the MS/MSD results, yields, and MDA within contract limits?

Yes No N/A

✓

3.4 Are the duplicate result, yields, and MDAs within contract limits?

Yes No N/A

✓

3.5 Are the sample yields and MDAs within contract limits?

Yes No N/A

✓

4.0 Raw Data

4.1 Were results calculated in the correct units?

Yes No N/A

✓

4.2 Were analysis volumes entered correctly?

Yes No N/A

✓

4.3 Were Yields entered correctly?

Yes No N/A

✓

4.4 Were spectra reviewed/meet contractual requirements?

Yes No N/A

✓

4.5 Were raw counts reviewed for anomalies?

Yes No N/A

✓

5.0 Other

5.1 Are all nonconformances included and noted?

Yes No N/A

✓

5.2 Are all required forms filled out?

Yes No N/A

✓

5.3 Was the correct methodology used?

Yes No N/A

✓

5.4 Was transcription checked?

Yes No N/A

✓

5.5 Were all calculations checked at a minimum frequency?

Yes No N/A

✓

5.6 Are worksheet entries complete and correct?

Yes No N/A

✓

6.0 Comments on any No response:

Please see NCM # 10-12471

First Level Review



Date

6-5-8

TAL Richland

QAS_RADCALCv4.8.33

TESTAMERICA

Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number: 8155256

Review Item	Yes (✓)	No (✓)	NA (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	-		
3. Is the blank result < the Contract Detection Limit?	-		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?	✓		
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Non-conformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: The blank was elevated. C-NCM

Second Level Review: *[Signature]* Date: 06-05-08

Clouseau Nonconformance Memo

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12471**
NCM Initiated By: John Norton
Date Opened: 06/05/2008
Date Closed:

Classification: **Anomaly**
Status: **CHREVIEW**
Production Area: Counting
Tests: Tc-99 by LSC
Lot #'s (Sample #'s): J8E010311 (4), J8E060000 (570),
QC Batches: 8127570,

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	06/05/2008	The blank and the LCS showed an elevated TSIE.

Corrective Action

Name	Date	Corrective Action
John Norton	06/05/2008	The blank and the LCS were re-counted in batch # 8155256 for acceptable results.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
			<u>Response</u>		<u>Response Note</u>

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

Lot No., Due Date: J8D250391, J8E010311; 06/16/2008
Client, Site: 384868; PGW 615 HANFORD HANFORD
QC Batch No., Method Test: 8127574; RTRITIUM H-3 by LSC
SDG, Matrix: W05387; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No N/A

☒ Yes ☐ No ☐ N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

☒ Yes ☐ No ☐ N/A

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A

☒ Yes ☐ No ☐ N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

☒ Yes ☐ No ☐ N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

☒ Yes ☐ No ☐ N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A

☒ Yes ☐ No ☐ N/A

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A

☒ Yes ☐ No ☐ N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A

☒ Yes ☐ No ☐ N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A

☒ Yes ☐ No ☐ N/A

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A

☒ Yes ☐ No ☐ N/A

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes No N/A

☒ Yes ☐ No ☐ N/A

4.2 Were analysis volumes entered correctly? Yes No N/A

☒ Yes ☐ No ☐ N/A

4.3 Were Yields entered correctly? Yes No N/A

☒ Yes ☐ No ☐ N/A

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A

☒ Yes ☐ No ☐ N/A

4.5 Were raw counts reviewed for anomalies? Yes No N/A

☒ Yes ☐ No ☐ N/A

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A

☒ Yes ☐ No ☐ N/A

5.2 Are all required forms filled out? Yes No N/A

☒ Yes ☐ No ☐ N/A

5.3 Was the correct methodology used? Yes No N/A

☒ Yes ☐ No ☐ N/A

5.4 Was transcription checked? Yes No N/A

☒ Yes ☐ No ☐ N/A

5.5 Were all calculations checked at a minimum frequency? Yes No N/A

☒ Yes ☐ No ☐ N/A

5.6 Are worksheet entries complete and correct? Yes No N/A

☒ Yes ☐ No ☐ N/A

6.0 Comments on any No response:

First Level Review

John Norton

Date

5-20-8

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 812874

Review Item	Yes (✓)	No (✓)	NA (✓)
A. Sample Analysis			✓
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		✓
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			✓
1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Erika Jod Date: 5/26/18

Lot No., Due Date: J8E010311; 06/16/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8127573; RC14 C-14 by LSC
SDG, Matrix: W05387; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?

Yes No N/A

✓

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?

Yes No N/A

✓

2.2 Are the QC appropriate for the analysis included in the batch?

Yes No N/A

✓

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?

Yes No N/A

✓

2.4 Does the Worksheets include a Tracer Vial label for each sample?

Yes No N/A

✓

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits?

Yes No N/A

✓

3.2 Is the LCS result, yield, and MDA within contract limits?

Yes No N/A

✓

3.3 Are the MS/MSD results, yields, and MDA within contract limits?

Yes No N/A

✓

3.4 Are the duplicate result, yields, and MDAs within contract limits?

Yes No N/A

✓

3.5 Are the sample yields and MDAs within contract limits?

Yes No N/A

✓

4.0 Raw Data

4.1 Were results calculated in the correct units?

Yes No N/A

✓

4.2 Were analysis volumes entered correctly?

Yes No N/A

✓

4.3 Were Yields entered correctly?

Yes No N/A

✓

4.4 Were spectra reviewed/meet contractual requirements?

Yes No N/A

✓

4.5 Were raw counts reviewed for anomalies?

Yes No N/A

✓

5.0 Other

5.1 Are all nonconformances included and noted?

Yes No N/A

✓

5.2 Are all required forms filled out?

Yes No N/A

✓

5.3 Was the correct methodology used?

Yes No N/A

✓

5.4 Was transcription checked?

Yes No N/A

✓

5.5 Were all calculations checked at a minimum frequency?

Yes No N/A

✓


5.6 Are worksheet entries complete and correct?

Yes No N/A

✓

6.0 Comments on any No response:

First Level Review



Date

6-5-8

TAL Richland

QAS_RADCALCv4.8.33

TESTAMERICA

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8127573

Review Item	Yes (✓)	No (✓)	NA (✓)
A. Sample Analysis			✓
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			✓
1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Erika Ford Date: 10/9/18

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 8122529 J8E010311 Due 6/14				
Lab Sample Number(s): WQ-5387				
Method/Test/Parameter: Cr+6 in Water / RICH-WC-5003				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
A. Initial Calibration	✓			✓
1. Performed at required frequency with required number of levels?	✓			✓
2. Correlation coefficient within QC limits?	✓			✓
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			✓
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✓
B. Continuing Calibration	✓			
1. CCV analyzed at required frequency and all parameters within QC limits?				✓
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓
C. Sample Analysis	✓			
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?				✓
2. Were all sample holding times met?	✓			✓
D. QC Samples	✓			✓
1. All results for the preparation blank below limits?	✓			✓
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?	✓			✓
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			✓
4. Analytical spikes within QC limits where applicable?			✓	✓
5. ICP only: One serial dilution performed per SDG?			✓	N/A ✓
6. ICP only: CRDI standard (CRI or CRA) analyzed at required frequency?			✓	" ✓
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	" ✓

Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
E. Other	✓			NO NCM ✓
1. Are all nonconformances included and noted?				
2. Is the correct date and time of analysis shown?	✓			✓
3. Did the analyst sign and date the front page of the analytical run?	✓			✓
4. Correct methodology used?	✓			✓
5. Transcriptions checked?	✓			✓
6. Calculations checked at minimum frequency?	✓			✓
7. Units checked?	✓			✓

Comments on any "No" response:

Analyst: 

Date: 5/01/08

Second-Level Review: 

Date: 6/13/08

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



Sample Check-in List

Date/Time Received: 04/25/08 15:13 GM Screen Result 1

Client: P6W SDG #: W05387 NA [] SAF #: I08-025 NA []

Work Order Number: J8D250391 Chain of Custody # I08-025-186, 231, 185, 233, 232, 187, 168, 261, 172, 202, 199, 200, 217

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes [] No []
2. Custody Seals dated and signed? NA [] Yes [] No []
3. Chain of Custody record present? NA [] Yes [] No []
4. Cooler Temperature: _____ NA [] 5. Vermiculite/packing materials is NA [] Wet [] Dry []
6. Number of samples in shipping container: 13
7. Sample holding times exceeded? NA [] Yes [] No []
8. Samples have:
____ Tape _____ Hazard Labels
____ Custody Seals _____ Appropriate Sample Labels
9. Samples are:
____ In Good Condition _____ Leaking
____ Broken _____ Have Air Bubbles
(Only for samples requiring no head space.)
10. Sample pH taken? NA [] pH < 2 [] pH > 2 [] pH > 9 [] Amount HNO₃ Added None
11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [] No []
13. Description of anomalies (include sample numbers): _____

Sample Custodian: DH S. Smith Date: 04/25/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

[illegible]



Sample Check-in List

Date/Time Received: 05-01-08 1310 GM Screen Result .1
Client: PTW SDG #: W05387 NA [] SAF #: I08-036 NA []
Work Order Number: J8E 070311 Chain of Custody # I08-036-85, 86, 83, 41

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes ☒ No []
2. Custody Seals dated and signed? NA [] Yes ☒ No []
3. Chain of Custody record present? NA [] Yes ☒ No []
4. Cooler Temperature: _____ NA ☒ 5. Vermiculite/packing materials is NA ☒ Wet [] Dry []
6. Number of samples in shipping container: 54
7. Sample holding times exceeded? NA ☒ Yes [] No []
8. Samples have:
____ Tape _____ Hazard Labels
____ Custody Seals / Appropriate Sample Labels
9. Samples are:
____ / In Good Condition _____ Leaking
____ Broken _____ Have Air Bubbles
(Only for samples requiring no head space.)
10. Sample pH taken? NA [] pH<2 ☒ pH>2 ☒ pH>9 [] Amount HNO₃ Added _____
11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [] No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 5/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

[illegible]



Sample Check-in List

Date/Time Received: 04/30/08 13:10 GM Screen Result 11

Client: PBW SDG #: W05387 NA [] SAF #: W08-004 NA []

Work Order Number: J8E010319 Chain of Custody # W08-004-206

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes ☒ No []
2. Custody Seals dated and signed? NA [] Yes ☒ No []
3. Chain of Custody record present? NA [] Yes ☒ No []
4. Cooler Temperature: _____ NA ☒ 5. Vermiculite/packing materials is NA ☒ Wet [] Dry []
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA ☒ Yes [] No []
8. Samples have:
____ Tape _____ Hazard Labels
____ Custody Seals _____ Appropriate Sample Labels
9. Samples are:
____ In Good Condition _____ Leaking
____ Broken _____ Have Air Bubbles
(Only for samples requiring no head space.)
10. Sample pH taken? NA [] pH < 2 ☒ pH > 2 ☒ pH > 9 [] Amount HNO₃ Added None
11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [] No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 04/30/08 13:10

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

[illegible]



Sample Check-in List

Date/Time Received: 05-01-08 1310 GM Screen Result .1

Client: P6W SDG #: W05387 NA [] SAF #: I08-028 NA []

Work Order Number: J8E070323 Chain of Custody # I08-028-18, 19

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes ☒ No []
2. Custody Seals dated and signed? NA [] Yes ☒ No []
3. Chain of Custody record present? NA [] Yes ☒ No []
4. Cooler Temperature: _____ NA ☒ 5. Vermiculite/packing materials is NA ☒ Wet [] Dry []
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA ☒ Yes [] No []
8. Samples have:
____ Tape _____ Hazard Labels
____ Custody Seals _____ Appropriate Sample Labels
9. Samples are:
____ In Good Condition _____ Leaking
____ Broken _____ Have Air Bubbles
(Only for samples requiring no head space.)
10. Sample pH taken? NA [] pH<2 ☒ pH>2 [] pH>9 [] Amount HNO₃ Added None
11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [] No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 5/1/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

5/22/2008 8:41:55 AM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Sample Preparation/Analysis

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
SI CLIENT: HANFORD

Balance Id: 1120482733

Pipet #: 245

Analyte Due Date: 06/09/2008 10:53:38

Batch: 8127567 WATER

PM, Quote: SS, 57671

PC/L

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: HarrisD | Bolk J

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KL3TJ-1-AC		184.90g.in								
J8D250391-1-SAMP										
04/25/2008 11:21										
2 KL3TM-1-AC		156.20g.in								
J8D250391-2-SAMP										
04/25/2008 09:55										
3 KL3TM-1-AE-X		156.30g.in								
J8D250391-2-DUP										
04/25/2008 09:55										
4 KL3TN-1-AC		125.20g.in								
J8D250391-3-SAMP										
04/25/2008 13:07										
5 KL3TQ-1-AC		200.10g.in								
J8D250391-4-SAMP										
04/25/2008 10:46										
6 KL3TT-1-AC		200.30g.in								
J8D250391-5-SAMP										
04/25/2008 10:05										
7 KL3TO-1-AC		161.10g.in								
J8D250391-6-SAMP										
04/25/2008 09:30										

TAL Richland
Richland Wa.Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.32

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KL374-1-AC		161.10g,in		1.5		50	10F	1115	6/7/08	
J8D250391-7-SAMP										
04/25/2008 12:06										
9 KL377-1-AC		200.30g,in					10A	1229	6/7/08	
J8D250391-8-SAMP										
04/25/2008 13:40										
10 KL378-1-AC		200.00g,in					10B			
J8D250391-9-SAMP										
04/25/2008 08:36										
11 KL379-1-AC		200.20g,in					10C			
J8D250391-10-SAMP										
04/25/2008 13:16										
12 KL3VA-1-AC		192.20g,in					10D			
J8D250391-11-SAMP										
04/25/2008 10:15										
13 KL3VC-1-AC		200.10g,in					10E			
J8D250391-12-SAMP										
04/25/2008 11:21										
14 KL3VD-1-AC		166.60g,in					10F			
J8D250391-13-SAMP										
04/25/2008 12:09										

5/22/2008 8:41:57 AM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Sample Preparation/Analysis

AZ Gross Alpha PrpRC5014

S7 Gross Alpha by GPC using Am-241 curve

AnalyteDueDate: 06/09/2008

51 CLIENT: HANFORD

Balance Id:1120482733

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

PM, Quote: SS, 57671

pCi/L

WATER

SEQ Batch, Test: None

Prep Tech: HarrisD

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 KME1C-1-AA		102.10g.in				100	12A	1240	6/3/04	
J8E010319-1-SAMP				1.5	24.5					
04/30/2008 10:03										
16 KMMWH-1-AA-B		200.50g.in								Beta: 1.10E-05 uCi/Sa
J8E060000-567-BLK					0.6		12B			
04/25/2008 09:55										
17 KMMWH-1-AC-C		200.10g.in								Beta:
J8E060000-567-LCS					0.9		12C			
04/25/2008 09:55										

Comments:

H2O. Aliquots reduced due to wt screens out 5/22/08

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SS, 57671

KL3TJ1AC-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KMMWH1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KMMWH1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20
KL3TJ1AC-SAMP Calc Info:					
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B	
KMMWH1AA-BLK:					
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B	
KMMWH1AC-LCS:					
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B	

TAL Richland

Key: In - Initial Amt, fl - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 3

Richland Wa.

ISV - Insufficient Volume for Analysis

WO Cnt: 17

Prep_SamplePrep v4 8.32

5/22/2008 8:41:58 AM

Sample Preparation/Analysis

Balance Id: 1120482733

AZ Gross Alpha PrpRC5014

S7 Gross Alpha by GPC using Am-241 curve

SI CLIENT: HANFORD

AnalyDueDate: 06/09/2008

Batch: 8127567

SEQ Batch, Test: None

pCi/L

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: HarrisD

Work Order, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Approved By

Date:

TAL Richland
Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 4

ISV - Insufficient Volume for Analysis

WO Cnt: 17

Prep_SamplePrep v4.8.32

6/4/2008 10:36:59 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/5/2007, 6/9/2008, Batch: '8127567', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting		Comments
8127567					
AC		Rev1C	HarrisD	5/22/2008 8:30:02	
SC			wagarr	IsBatched	5/6/2008 3:58:29 PM
SC			HarrisD	InPrep	5/22/2008 8:30:02 AM
SC			HarrisD	Prep1C	5/22/2008 8:42:01 AM
SC			BockJ	InPrep2	5/29/2008 11:11:10 AM
SC			BockJ	Prep2C	6/2/2008 5:43:35 PM
SC			DAWKINSO	InCnt1	6/2/2008 6:15:06 PM
SC			DAWKINSO	CalcC	6/3/2008 5:35:55 PM
SC			nortonj	Rev1C	6/4/2008 10:36:51 AM
AC			HarrisD	5/22/2008 8:42:01	
AC			BockJ	5/29/2008 11:11:10	
AC			BockJ	6/2/2008 5:43:35 PM	
AC			DAWKINSO	6/2/2008 6:15:06 PM	
AC			DAWKINSO	6/3/2008 5:35:55 PM	
AC			nortonj	6/4/2008 10:36:51	
					ICOC_RADCALC v4.8.32
					RICH-RC-5014 Revision 7
					RICH-RC-5014 REVISION 7
					RICH-RC-5014 REVISION 7
					RICH-RC-5014 REVISION 7
					RICH-RD-0003 REVISION 5
					RICH-RD-0003 REVISION 5
					RICH-RC-0002 REV 8

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

Page 1

Grp Rec Cnt: 7
ICOCFractions v4.8.33

5/22/2008 8:57:32 AM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Sample Preparation/Analysis

Balance Id: 1120482733

BC Gross Beta PrpRCS014

S8 Gross Beta by GPC using Sr/Y-90 curve

SI CLIENT: HANFORD

AnalyDueDate: 06/09/2008 10:53:38

Batch: 8127568 WATER pCVL

SEQ Batch, Test: None

PM, Quote: SS, 57671

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: HarrisD/Bock

Work Order, Lot, Sample Date Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KL3TJ-1-AD		200.00g.in								
J8D250391-1-SAMP										
04/25/2008 11:21										
2 KL3TM-1-AD		199.90g.in								
J8D250391-2-SAMP										
04/25/2008 09:55										
3 KL3TN-1-AD		200.50g.in								
J8D250391-3-SAMP										
04/25/2008 13:07										
4 KL3TN-1-AE-X		200.40g.in								
J8D250391-3-DUP										
04/25/2008 13:07										
5 KL3TG-1-AD		200.40g.in								
J8D250391-4-SAMP										
04/25/2008 10:46										
6 KL3TT-1-AD		200.20g.in								
J8D250391-5-SAMP										
04/25/2008 10:05										
7 KL3TO-1-AD		200.50g.in								
J8D250391-6-SAMP										
04/25/2008 09:30										

TAL Richland
Richland Wa.Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktalled Added

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.32

5/22/2008 8:57:33 AM

Sample Preparation/Analysis

Balance Id: 1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

BC Gross Beta PrpRC5014

S8 Gross Beta by GPC using Sr/Y-90 curve

51 CLIENT: HANFORD

Analyte Due Date: 06/09/2008

Batch: 8127568 WATER pCi/L

SEQ Batch, Test: None

PM, Quote: SS, 57671

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: HarrisD

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	#Containers	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On/Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KL374-1-AD		200.10g.in									
J8D250391-7-SAMP							99.3	282	Alpha: 2.01E-04 uCi/Sa		Beta: 3.08E-04 uCi/Sa
04/25/2008 12:06											
9 KL377-1-AD		200.40g.in									
J8D250391-8-SAMP							75.1	283	Alpha: 3.27E-04 uCi/Sa		Beta: 4.96E-05 uCi/Sa
04/25/2008 13:40											
10 KL378-1-AD		200.30g.in									
J8D250391-9-SAMP							77.8	284	Alpha: 3.27E-04 uCi/Sa		Beta: 4.96E-05 uCi/Sa
04/25/2008 09:36											
11 KL379-1-AD		200.10g.in									
J8D250391-10-SAMP							57.2	285	Alpha: 3.27E-04 uCi/Sa		Beta: 4.96E-05 uCi/Sa
04/25/2008 13:16											
12 KL37A-1-AD		200.10g.in									
J8D250391-11-SAMP							84.1	312	Alpha: 3.27E-04 uCi/Sa		Beta: 4.96E-05 uCi/Sa
04/25/2008 10:15											
13 KL37C-1-AD		200.10g.in									
J8D250391-12-SAMP							57.2	313	Alpha: 3.27E-04 uCi/Sa		Beta: 4.96E-05 uCi/Sa
04/25/2008 11:21											
14 KL37D-1-AD		200.10g.in									
J8D250391-13-SAMP							82.7	314	Alpha: 3.27E-04 uCi/Sa		Beta: 4.96E-05 uCi/Sa
04/25/2008 12:09											

TAL Richland
Richland Wa.Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktalled Added

Page 2

ISV - Insufficient Volume for Analysis

WO Cnt: 14

Prep_SamplePrep v4.8.32

5/22/2008 8:57:34 AM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Sample Preparation/Analysis

Balance Id: 1120482733

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
51 CLIENT: HANFORD

Pipet #:

AnalysDueDate: 06/09/2008

Sep1 DT/Tm Tech:

Batch: 8127568 WATER

PM, Quote: SS, 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: HarrisD

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 KME1C-1-AC		200.30g.in								
J8E010319-1-SAMP										
04/30/2008 10:03										
16 KMMWP-1-AA-B		200.10g.in								
J8E060000-568-BLK										
04/25/2008 13:07										
17 KMMWP-1-AC-C		200.50g.in								
J8E060000-568-LCS										
04/25/2008 13:07										

Comments:

0420.0 Out sp00108

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SS, 57671

KL3TJ1AD-SAMP Constituent List:

BETA	RDL:4	PCI/L	LCL:	UCL:	RPD:
KMMWP1AA-BLK:					
BETA	RDL:4	PCI/L	LCL:	UCL:	RPD:
KMMWP1AC-LCS:					
Sr-90	RDL:	PCI/L	LCL:70	UCL:130	RPD:20
KL3TJ1AD-SAMP Calc Info:					
Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
KMMWP1AA-BLK:					
Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
KMMWP1AC-LCS:					
Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	

TAL Richland

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2

Page 3

ISV - Insufficient Volume for Analysis

WO Cnt: 17

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Prep_SamplePrep v4.8.32

5/22/2008 8:57:35 AM

Sample Preparation/Analysis

Balance Id: 120482733

BC Gross Beta PrpRC5014

S8 Gross Beta by GPC using Sr/Y-90 curve

SI CLIENT: HANFORD

AnalysDueDate: 06/09/2008

Batch: 8127568

SEQ Batch, Test: None

pCi/L

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: HarrisD

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Approved By

Date:

TAL Richland
Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 4

WO Cnt: 17

Prep_SamplePrep v4.8.32

6/3/2008 11:32:36 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/4/2007, 6/8/2008, Batch: '8127568', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127568				
AC	Rev1C	HarrisD	5/22/2008 8:47:18	
SC		wagarr	IsBatched	5/6/2008 3:58:29 PM
SC		HarrisD	InPrep	5/22/2008 8:47:18 AM
SC		HarrisD	Prep1C	5/22/2008 8:57:35 AM
SC		BockJ	InPrep2	5/29/2008 11:11:04 AM
SC		BockJ	Prep2C	6/2/2008 5:43:49 PM
SC		DAWKINSO	InCnt1	6/2/2008 6:15:18 PM
SC		ClarkR	CalcC	6/3/2008 9:42:45 AM
SC		nortonj	Rev1C	6/3/2008 11:32:26 AM
AC		HarrisD	5/22/2008 8:57:35	
AC		BockJ	5/29/2008 11:11:04	
AC		BockJ	6/2/2008 5:43:49 PM	
AC		DAWKINSO	6/2/2008 6:15:18 PM	
AC		ClarkR	6/3/2008 9:42:45 AM	
AC		nortonj	6/3/2008 11:32:26	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

Page 1

Grp Rec Cnt: 7
ICOCFractions v4.8.33

Sample Preparation/Analysis

6/9/2008 5:07:27 PM Balance Id:1120373922
 384668, Pacific Northwest National Laboratory CL Sr-90 Prp/SepRC5006(5071) Pipet #:
 Pacific Northwest National Lab TL Sr-85 by Nal and Sr-90 by GPC 7 day ingrowth
 AnalyDueDate: 06/16/2008 51 CLIENT: HANFORD

Sep1 DT/Tm Tech: 06/02/2008 15:23,ManisD
 Sep2 DT/Tm Tech: 06/09/2008 10:44,ManisD

PM, Quote: SS, 57671

PC/L

WATER

Batch: 8127566
 SEQ Batch, Test: None

Prep Tech: LucasD

Work Order, Lot, Sample Date Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On / Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KMEXB-1-AD		989.78g.in	SRTB16224	0.7906	1.0	22.9	100	30	3051	6/10/08	
J8E010311-1-SAMP		05/21/08.pd	05/22/07					2A	3030	6/11/08	
06/02/2008-15:23.st, 06/09/2008											
05/01/2008 10:29			AmtRec: 20ML,6XLP	#Containers: 7							
2 KMEOL-1-AD		1001.04g.in	SRTB16225	0.8458	1.0	23.4	100	35	0651	6/12/08	
J8E010311-3-SAMP		05/21/08.pd	05/22/07					25	0630	6/11/08	
06/02/2008-15:23.st, 06/09/2008											
05/01/2008 08:48			AmtRec: 20ML,6XLP	#Containers: 7							
3 KMEOM-1-AD		1000.59g.in	SRTB16226	0.8164	1.0	22.8	100	30	0651	6/12/08	
J8E010311-4-SAMP		05/21/08.pd	05/22/07					20	0630	6/11/08	
06/02/2008-15:23.st, 06/09/2008											
05/01/2008 09:36			AmtRec: 20ML,500MLP,6XLP	#Containers: 8							
4 KMEZD-1-AC		978.76g.in	SRTB16227	0.8464	1.0	23	100	30	0651	6/12/08	
J8E010323-1-SAMP		05/21/08.pd	05/22/07					22	0630	6/11/08	
06/02/2008-15:23.st, 06/09/2008											
04/29/2008 13:28			AmtRec: 20ML,3XLP,2X4LP	#Containers: 6							

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added
 WO Cnt: 4
 Prep_SamplePrep v4.8.32

6/9/2008 5:07:28 PM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Sample Preparation/Analysis

Balance Id:1120373922

CL Sr-90 Prp/SepRCS006(5071)

TL Sr-85 by Nal and Sr-90 by GPC 7 day ingrowth

AnalyDueDate: 06/16/2008

SI CLIENT: HANFORD

Sep1 DT/Tm Tech: 06/02/2008 15:23,ManisD

Batch: 8127566 WATER

PM, Quote: SS, 57671

Sep2 DT/Tm Tech: 06/09/2008 10:44,ManisD

SEQ Batch, Test: None

pC/L

Prep Tech: LucasD

Work Order, Lot, Sample Date Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 KME2L-1-AC		1002.39g.in	SRTB16228		1.0	23.6	100	42	0 657	6/11/08	
J8E010323-2-SAMP		05/21/08.pd	0.7287					42	0630	6/11/08	
06/02/2008 15:23.st, 06/09/2008											
04/29/2008 13:28		AmtRec: 20ML_3XLP_2X4LP	#Containers: 6								
6 KME2L-1-AD-X		986.57g.in	SRTB16229		1.0	23	100	43	0651	6/11/08	Beta: 1.14E-03 uCi/Sa
J8E010323-2-DUP		05/21/08.pd	0.8394					43	0630	6/11/08	
06/02/2008 15:23.st, 06/09/2008											
04/29/2008 13:28		AmtRec: 20ML_3XLP_2X4LP	#Containers: 6								
7 KMMWE-1-AA-B		1000.11g.in	SRTB16230		1.0	23.2	100	44	0651	6/11/08	Beta: 1.14E-03 uCi/Sa
J8E060000-566-BLK		05/21/08.pd	0.7932					44	0630	6/11/08	
06/02/2008 15:23.st, 06/09/2008											
04/29/2008 13:28		AmtRec: 20ML_3XLP_2X4LP	#Containers: 1								
8 KMMWE-1-AC-C		1000.43g.in	SRSB1467		1.0	22.8	100	45	0651	6/11/08	Beta:
J8E060000-566-LCS		04/11/08.pd	0.8493					45	0630	6/11/08	
06/02/2008 15:23.st, 06/09/2008											
04/29/2008 13:28		AmtRec: 20ML_3XLP_2X4LP	#Containers: 1								

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2
 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktalled Added

WO Cnt: 8

ISV - Insufficient Volume for Analysis

Prep_SamplePrep v4.8.32

6/9/2008 5:07:28 PM

Sample Preparation/Analysis

Balance Id:1120373922

CL Sr-90 Prp/SepRC5006(5071)

TL Sr-85 by Nal and Sr-90 by GPC 7 day ingrowth

SI CLIENT: HANFORD

AnalyseDueDate: 06/16/2008

pCi/L

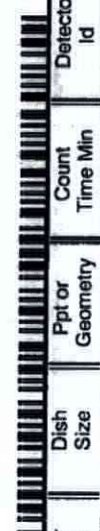
Batch: 8127566

SEQ Batch, Test: None

Sep1 DT/Tm Tech: 06/02/2008 15:23, ManisD

Sep2 DT/Tm Tech: 06/09/2008 10:44, ManisD

Prep Tech: LucasD



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SS, 57671

FOEX81AD-SAMP Constituent List:

Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 RCL:70 UCL:130 RPD:20

KOMWELAA-BLK:

Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 RCL:70 UCL:130 RPD:20

KOMWELAC-LCS:

Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 RCL:70 UCL:130 RPD:20

FOEX81AD-SAMP Calc Info:

Uncert Level (#s): 2 Decay to Sadt: Y Blk Subt.: N Sci.Mot.: Y ODRs: B

KOMWELAA-BLK:

Uncert Level (#s): 2 Decay to Sadt: Y Blk Subt.: N Sci.Mot.: Y ODRs: B

KOMWELAC-LCS:

Uncert Level (#s): 2 Decay to Sadt: Y Blk Subt.: N Sci.Mot.: Y ODRs: B

Approved By

Date:

TAL Richland

Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2

Page 3

pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktalled Added

WO Cnt: 8

Prep_SamplePrep v4.8.32

6/11/2008 9:58:26 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/12/2007, 6/16/2008, Batch: '8127566', User: *ALL Order By DateTimeAccepting

O Batch	Work Ord	CurStatus	Accepting	Comments
8127566				
AC	Rev1C	LucasD	5/28/2008 2:31:40 PM	
SC		wagarr	IsBatched	5/6/2008 3:58:29 PM
SC		LucasD	InPrep	5/28/2008 2:31:40 PM
SC		ManisD	InSep1	5/29/2008 8:34:23 AM
SC		ManisD	Sep1C	6/2/2008 3:51:55 PM
SC		DAWKINSO	InCnt1	6/2/2008 4:05:35 PM
SC		DAWKINSO	Cnt1C	6/2/2008 10:42:16 PM
SC		ManisD	Sep2C	6/9/2008 5:08:29 PM
SC		DAWKINSO	InCnt2	6/9/2008 5:15:12 PM
SC		ClarkR	CalcC	6/11/2008 7:29:19 AM
SC		nortonj	Rev1C	6/11/2008 9:58:16 AM
AC		ManisD	5/29/2008 8:34:23	
AC		ManisD	6/2/2008 3:51:55 PM	
AC		DAWKINSO	6/2/2008 4:05:35 PM	
AC		DAWKINSO	6/2/2008 10:42:16 PM	
AC		ManisD	6/9/2008 5:08:29 PM	
AC		DAWKINSO	6/9/2008 5:15:12 PM	
AC		ClarkR	6/11/2008 7:29:19	
AC		nortonj	6/11/2008 9:58:16	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

Page 1

Grp Rec Cnt:9
ICOCFractions v4.8.33

6/2/2008 1:43:36 PM

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab

Balance Id:1120482733

Pipet #:

Sample Preparation/Analysis

BN I-129 Prp/SepRCS025

TB Gamma by LEPD

51 CLIENT: HANFORD

Batch: 8127565 WATER

SEQ Batch, Test: None

PM, Quote: SS, 57671

Prep Tech: LucasD

Work Order, Lot, Sample Date Time

Total Amt/Unit

Initial Aliquot Amt/Unit

QC Tracer Prep Date

Dish Size

Ppt or Geometry

Count Time Min

Detector Id

Count On | Off (24hr) Circle

CR Analyst, Init/Date

Comments:

1 KME2D-1-AA

J8E010323-1-SAMP

04/29/2008 13:28

3732.80g.in

ITA7285

05/21/08

20ML_3XLP_2X4LP

#Containers: 6

36.8

LA

1206

6/6/08

Scr: Alpha: 5.57E-03 uCi/Sa

Beta: 1.29E-03 uCi/Sa

2 KME2D-1-AD-X

J8E010323-1-DUP

04/29/2008 13:28

3793.00g.in

ITA7286

05/21/08

20ML_3XLP_2X4LP

#Containers: 6

35.1

L4

1207

Scr: Alpha: 5.57E-03 uCi/Sa

Beta: 1.29E-03 uCi/Sa

3 KME2L-1-AA

J8E010323-2-SAMP

04/29/2008 13:28

3813.10g.in

ITA7287

05/21/08

20ML_3XLP_2X4LP

#Containers: 6

35.6

L5

1207

Scr: Alpha: 5.57E-03 uCi/Sa

Beta: 1.29E-03 uCi/Sa

4 KMMWC-1-AA-B

J8E060000-565-BLK

04/29/2008 13:28

3976.90g.in

ITA7288

05/21/08

20ML_3XLP_2X4LP

#Containers: 1

35.9

LA

1353

6/6/08

Scr: Alpha: 3.98E-03 uCi/Sa

Beta: 1.14E-03 uCi/Sa

5 KMMWC-1-AC-C

J8E060000-565-LCS

04/29/2008 13:28

3994.00g.in

ISD0850

04/22/08

20ML_3XLP_2X4LP

#Containers: 1

35.9

L4

1353

Scr: Alpha:

Beta:

Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SS, 57671

KME2D1AA-SAMP Constituent List:

1-129

RDL:1.00E+00

pCi/L

LCL:

UCL:

RPD:

TAL Richland

Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2

pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktalled Added

Page 1

WO Cnt: 5

Prep_SamplePrep v4.8.32

TESTAMERICA

93

6/2/2008 1:43:38 PM

Sample Preparation/Analysis

Balance Id:1120482733

BN I-129 Prp/SepRCS025
TB Gamma by LEPD
SI CLIENT: HANFORD

Pipet #:

AnalyteDueDate: 06/16/2008


Sep1 DT/Tm Tech:

Batch: 8127565
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

pCi/L

Prep Tech: LucasD

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
										
I-129 RDL:1.00E+00		pCi/L	UCL:	RFD:						
RDL:5										
I-129 RDL:5		pCi/L	UCL:130	RFD:20						
RDL:130										
RDL:20										
Decay to Sadt: Y										
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6/10/2008 11:51:34 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/11/2007, 6/15/2008, Batch: '8127565', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127565				
AC	Rev1C	LucasD	6/2/2008 1:23:39 PM	
SC		wagarr	IsBatched	5/6/2008 3:58:29 PM
SC		LucasD	InPrep	6/2/2008 1:23:39 PM
SC		BostedD	InPrep2	6/5/2008 7:37:19 AM
SC		BostedD	Prep2C	6/6/2008 10:16:31 AM
SC		BlackCL	InCnt1	6/6/2008 10:23:43 AM
SC		DAWKINSO	CalcC	6/6/2008 8:03:14 PM
SC		nortonj	Rev1C	6/10/2008 11:51:30 AM
AC		BostedD	6/5/2008 7:37:19 AM	
AC		BostedD	6/6/2008 10:16:31	
AC		BlackCL	6/6/2008 10:23:43	
AC		DAWKINSO	6/6/2008 8:03:14 PM	
AC		nortonj	6/10/2008 11:51:30	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

Page 1

Grp Rec Cnt:6
ICOCFractions v4.8.33

16/3/2008 10:13:52 AM

Sample Preparation/Analysis

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

pCi/L

Batch: 8155256
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Amt Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KMMWW-2-AA-B										
J8E060000-570-BLK										
05/01/2008 09:36										
2 KMMWW-2-AC-C										
J8E060000-570-LCS										
05/01/2008 09:36										
3 KMMWW-2-AD-B										
J8E060000-570-BLK										
05/01/2008 09:36										

Comments:

All Clients for Batch:

KMMWW2AA-BLK Constituent List:

KMMWW2AC-LCS Constituent List:

KMMWW2AD-BLK:

KMMWW2AA-BLK Calc Info:

Uncert Level (#s): 4

KMMWW2AC-LCS Calc Info:

Uncert Level (#s): 4

KMMWW2AD-BLK:

Uncert Level (#s): 4

Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B

TAL Richland
Richland Wa.

Key: In - Initial Amt, fl - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktalled Added

Page 1

WO Cnt: 3

ICOC v4.8.32

6/3/2008 10:13:52 AM

Sample Preparation/Analysis

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
SI CLIENT: HANFORD

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Batch: 8155256

SEQ Batch, Test: None

PC/L

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Approved By

Date:

TAL Richland
Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 2

ISV - Insufficient Volume for Analysis

WO Cnt: 3

ICOC v4.8.32



RE-COUNT REQUEST

DUE DATE 6-16

CUSTOMER PGW

ANALYSIS Tc 99

MATRIX H₂O

LOT NUMBER J8E010311

SAMPLE DELIVERY GROUP W05387

OLD BATCH NUMBER 8127570

NEW BATCH NUMBER 8155256

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KMMW/WADN		
2) KMMW/WAB		TSIE OUT
3) KMMW/WAC		
4)		
5)		
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18)		
19)		
20)		

RC-126, 12/07, Rev 5

5/28/2008 10:24:07 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory
Pacific Northwest National LabFP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
51 CLIENT: HANFORD

AnalyteDueDate: 06/16/2008

Batch: 8127570 WATER

PM, Quote: SS, 57671

SEQ Batch, Test: None All Tests: 8122529 88EA, 8127566 CLTL, 8127570 FPS5, 8127573 5SS3, 8127574 ARS6,

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: LucasD

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KMEOM-1-AE			125.53g, in	125.53g		60 min				
JBE010311-4-SAMP										
05/01/2008 09:36			AmtRec: 20ML_500MLP, 6XLP	#Containers: 8	TCSG2054 05/20/08, pd 01/10/06, r			Alpha: -6.75E-04 uCi/Sa		Beta: 3.87E-04 uCi/Sa
2 KMEOM-1-AF-S			125.76g, in	125.76g						
JBE010311-4-MS										
05/01/2008 09:36			AmtRec: 20ML_500MLP, 6XLP	#Containers: 8				Alpha: -6.75E-04 uCi/Sa		Beta: 3.87E-04 uCi/Sa
3 KMEOM-1-AG-X			125.50g, in	125.50g						
JBE010311-4-DUP										
05/01/2008 09:36			AmtRec: 20ML_500MLP, 6XLP	#Containers: 8				Alpha: -6.75E-04 uCi/Sa		Beta: 3.87E-04 uCi/Sa
4 KMMWW-1-AA-B			125.74g, in	125.74g						
JBE060000-570-BLK										
05/01/2008 09:36			AmtRec	#Containers: 1				Alpha:		Beta:
5 KMMWW-1-AC-C			125.05g, in	125.05g	TCSE2213 02/18/08, pd 01/10/06, r					
JBE060000-570-LCS										
05/01/2008 09:36			AmtRec	#Containers: 1				Alpha:		Beta:
6 KMMWW-1-AD-BN										
JBE060000-570-IBLK										
05/01/2008 09:36			AmtRec	#Containers: 1				Alpha:		Beta:

TAL Richland

Key: In - Initial Amt,

fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 6

Prep. SamplePrep v4.8.32

5/28/2008 10:24:09 AM

Sample Preparation/Analysis

Balance Id:

FP Tc-99 Prp/SepRC5065

Pipet #:

S5 Technetium-99 by Liquid Scint

AnalyDueDate: 06/16/2008

SI CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 8127570
SEO Batch, Test: None

pCi/L

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On / Off (24hr) Circle	CR Analyst, Init/Date	Comments:
---------------------------------	--------------------	-------------------------	-----------------------------	--------------------------------	------------------------	-------------------	----------------	---------------------------------	--------------------------	-----------

Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

KHEOMIAE-SAMP Constituent List:

Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

KHEOMIAF-MS Constituent List:

KHEOMIAA-BLK: RDL:15 pCi/L UCL: RPD:

Tc-99 RDL:15

KHEOMIAC-LCS: RDL:15

Tc-99 RDL:15

KHEOMIAD-IBLK: RDL:15

Tc-99 RDL:15

KHEOMIAE-SAMP Calc Info:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KHEOMIAF-MS Calc Info:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KHEOMIAA-BLK:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KHEOMIAC-LCS:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KHEOMIAD-IBLK:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By

Date:

TAL Richland
Richland Wa.Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt. r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 6

Prep_SamplePrep v4.8.32

6/5/2008 8:04:26 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/6/2007, 6/10/2008, Batch: '8127570', User: 'ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127570				
AC	Rev1C	LucasD	5/28/2008 10:12:03	
SC		wagarr	IsBatched	5/6/2008 3:58:29 PM
SC		LucasD	InPrep	5/28/2008 10:12:03 AM
SC		Barcotl	InPrep	6/2/2008 4:01:04 PM
SC		Barcotl	Prep1C	6/2/2008 4:01:29 PM
SC		DAWKINSO	InCnt1	6/2/2008 4:30:21 PM
SC		BlackCL	CalcC	6/3/2008 7:08:45 AM
SC		nortonj	Rev1C	6/5/2008 8:04:20 AM
AC		Barcotl	6/2/2008 4:01:04 PM	
AC		Barcotl	6/2/2008 4:01:29 PM	
AC		DAWKINSO	6/2/2008 4:30:21 PM	
AC		BlackCL	6/3/2008 7:08:45 AM	
AC		nortonj	6/5/2008 8:04:20 AM	

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt:6

ICOCFractions v4.8.33

5/6/2008 3:51:29 PM

Sample Preparation/Analysis

Balance Id: 124415

384868, Pacific Northwest National Laboratory
Pacific Northwest National LabAR H-3 Prp/SeprC5007
S6 Tritium by Liquid Scint

AnalyteDueDate: 06/09/2008

W05387

SI CLIENT: HANFORD

Sep1 DT/Tm Tech: 5-15-08

Batch: 8127574 WATER PCIL

PM, Quote: SS, 57671

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On / Off (24hr) Circle	CR Analyst, Init/Date	Comments:
--------------------------------------	-------------------	-----------------------------	------------------------	-------------------	----------------	---------------------------------	--------------------------	-----------

1 KL3TJ-1-AA

J8D250391-1-SAMP

04/25/2008 11:21

AmfRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 4.95E-04 uCi/Sa

Beta: 9.38E-05 uCi/Sa

2 KL3TJ-1-AEX

J8D250391-1-DUP

04/25/2008 11:21

AmfRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 4.95E-04 uCi/Sa

Beta: 9.38E-05 uCi/Sa

3 KL3TM-1-AA

J8D250391-2-SAMP

04/25/2008 09:55

AmfRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: -1.53E-04 uCi/Sa

Beta: 3.25E-04 uCi/Sa

4 KL3TN-1-AA

J8D250391-3-SAMP

04/25/2008 13:07

AmfRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 2.84E-04 uCi/Sa

Beta: 3.03E-04 uCi/Sa

5 KL3TQ-1-AA

J8D250391-4-SAMP

04/25/2008 10:46

AmfRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 5.11E-06 uCi/Sa

Beta: 4.58E-04 uCi/Sa

6 KL3TT-1-AA

J8D250391-5-SAMP

04/25/2008 10:05

AmfRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: -1.69E-05 uCi/Sa

Beta: 4.58E-04 uCi/Sa

7 KL3TD-1-AA

J8D250391-6-SAMP

04/25/2008 09:30

AmfRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 3.00E-04 uCi/Sa

Beta: 3.86E-05 uCi/Sa

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktail Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7

ICOC v4.8.32

5/6/2008 3:51:29 PM

Sample Preparation/Analysis

Balance Id:

384868, Pacific Northwest National Laboratory

AR H-3 Prp/SepRC5007

Pacific Northwest National Lab

S6 Tritium by Liquid Scint

AnalytDueDate: 06/09/2008

SI CLIENT: HANFORD

Sep1 DT/Tm Tech:

5-15-08 4:20

Batch: 8127574 WATER

PCIL

PM, Quote: SS, 57671

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On / Off (24hr) Circle	CR Analyst, Init/Date	Comments:
--------------------------------------	-------------------	-----------------------------	------------------------	-------------------	----------------	---------------------------------	--------------------------	-----------

8 KL3T4-1-AA

J8D250391-7-SAMP

04/25/2008 12:06

AmtRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 2.01E-04 uCi/Sa

Beta: 3.03E-04 uCi/Sa

9 KL3T7-1-AA

J8D250391-8-SAMP

04/25/2008 13:40

AmtRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 3.27E-04 uCi/Sa

Beta: 4.98E-05 uCi/Sa

10 KL3T8-1-AA

J8D250391-9-SAMP

04/25/2008 09:36

AmtRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 9.78E-05 uCi/Sa

Beta: 6.12E-04 uCi/Sa

11 KL3T9-1-AA

J8D250391-10-SAMP

04/25/2008 13:16

AmtRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 1.31E-04 uCi/Sa

Beta: 4.38E-04 uCi/Sa

12 KL3VA-1-AA

J8D250391-11-SAMP

04/25/2008 10:15

AmtRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 1.91E-04 uCi/Sa

Beta: 3.92E-04 uCi/Sa

13 KL3VC-1-AA

J8D250391-12-SAMP

04/25/2008 11:21

AmtRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 3.36E-04 uCi/Sa

Beta: 4.58E-04 uCi/Sa

14 KL3VD-1-AA

J8D250391-13-SAMP

04/25/2008 12:09

AmtRec: 20ML, 2XLP

#Containers: 3

Scr: Alpha: 3.58E-04 uCi/Sa

Beta: 6.58E-04 uCi/Sa

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktail Added

ISV - Insufficient Volume for Analysis

WO Cnt: 14

ICOC v4.8.32

5/6/2008 3:51:30 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AR H-3 Prep/Sep/CS007
S6 Tritium by Liquid Scint
SI CLIENT: HANFORD

Batch: 8127574

SEQ Batch, Test: None

WATER

PC/L

Balance Id: 12445
Pipet #: 515-0822

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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15 KMEEX-1-AA

JBE010311-1-SAMP

05/01/2008 10:29

AmtRec: 20ML, 6XLP

#Containers: 7

Scr:

Alpha:

Beta:

16 KMEOL-1-AA

JBE010311-3-SAMP

05/01/2008 08:48

AmtRec: 20ML, 6XLP

#Containers: 7

Scr:

Alpha:

Beta:

17 KMEOM-1-AA

JBE010311-4-SAMP

05/01/2008 09:36

AmtRec: 20ML, 500MLP, 6XLP

#Containers: 8

Scr:

Alpha:

Beta:

18 KMMW7-1-AA-B

JBE060000-574-BLK

04/25/2008 11:21

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

19 KMMW7-1-AC-C

JBE060000-574-LCS

04/25/2008 11:21

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

20 KMMW7-1-AD-B

JBE060000-574-BLK

04/25/2008 11:21

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

21 KMMW7-1-AE-C

JBE060000-574-LCS

04/25/2008 11:21

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

5/6/2008 3:51:30 PM

Sample Preparation/Analysis

Balance Id:

12445

Pipet #:

AnalyteDueDate: 06/09/2008

AR H-3 Prp/SepRC5007

S6 Tritium by Liquid Scint

SI CLIENT: HANFORD

Sep1 DT/Tm Tech:

5-15-08

Batch: 8127574

PCIL

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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22 KMMW7-1-AF-B

J8E060000-574-BLK

04/25/2008 11:21

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

23 KMMW7-1-AG-B

J8E060000-574-BLK

04/25/2008 11:21

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

24 KMMW7-1-AH-B

J8E060000-574-BLK

04/25/2008 11:21

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SS, 57671

E-3 RDI:400 PC1/L

LCL:70

DCL:130

RPD:20

KMMW71AA-BLK:

KMMW71AC-LCS:

KMMW71AD-BLK:

KMMW71AE-LCS:

KMMW71AF-BLK:

KMMW71AG-BLK:

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 4
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktalled Added

ISV - Insufficient Volume for Analysis

WO Cnt: 24

ICOC v4.8.32

5/6/2008 3:51:30 PM

Sample Preparation/Analysis

Balance Id:

62445

AnalytDueDate: 06/09/2008

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
SI CLIENT: HANFORD

Sep1 DT/Tm Tech:

S-15-08a

Batch: 8127574

PC/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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K06071AE-BLK:

K137J1AA-SAMP Calc Info:

Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subc.: N	Sci.Mot.: Y	ODRs: B
K06071AA-BLK:				
Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subc.: N	Sci.Mot.: Y	ODRs: B
K06071AC-ICS:				
Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subc.: N	Sci.Mot.: Y	ODRs: B
K06071AD-BLK:				
Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subc.: N	Sci.Mot.: Y	ODRs: B
K06071AE-ICS:				
Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subc.: N	Sci.Mot.: Y	ODRs: B
K06071AF-BLK:				
Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subc.: N	Sci.Mot.: Y	ODRs: B
K06071AG-BLK:				
Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subc.: N	Sci.Mot.: Y	ODRs: B
K06071AH-BLK:				
Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subc.: N	Sci.Mot.: Y	ODRs: B

Approved By

Date:

5/20/2008 11:57:23 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/21/2007, 5/25/2008, Batch: '8127574', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127574				
AC	Rev1C	McDowellID	5/15/2008 11:56:32	
SC		wagarr	IsBatched 5/6/2008 3:58:29 PM	ICOC_RADCALC v4.8.32
SC		McDowellID	InSep1 5/15/2008 11:56:32 AM	RICH-RC-5007 REVISION 6
SC		McDowellID	Sep1C 5/16/2008 3:40:48 PM	RICH-RC-5007 REVISION 6
SC		DAWKINSO	InCnt1 5/16/2008 4:10:11 PM	RICH-RD-0001 REVISION 4
SC		ClarkR	CalcC 5/20/2008 8:54:02 AM	RICH-RD-0001 REVISION 4
SC		nortonj	Rev1C 5/20/2008 11:57:07 AM	RICH-RC-0002 REV 8
AC		McDowellID	5/16/2008 3:40:48 PM	
AC		DAWKINSO	5/16/2008 4:10:11 PM	
AC		ClarkR	5/20/2008 8:54:02	
AC		nortonj	5/20/2008 11:57:07	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

Page 1

Grp Rec Cnt: 5
ICOCFractions v4.8.33

5/6/2008 3:51:28 PM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

SS C-14 Pp/SepRC5022

S3 Carbon-14 by Liquid Scint

AnalyteDueDate: 06/16/2008

51 CLIENT: HANFORD

Batch: 8127573

PM, Quote: SS, 57671

pCi/L

WATER

SEQ Batch, Test: None

Sample Preparation/Analysis

Balance Id:

N/A

Pipet #:

Sep1 DT/Tm Tech:

S-30-08 DW

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KMEXB-1-AC								
J8E010311-1-SAMP								
05/01/2008 10:29								
AmfRec: 20ML_6XLP #Containers: 7								
Scr: Alpha: Beta:								
2 KMEXB-1-AE-X								
J8E010311-1-DUP								
05/01/2008 10:29								
AmfRec: 20ML_6XLP #Containers: 7								
Scr: Alpha: Beta:								
3 KMEOL-1-AC								
J8E010311-3-SAMP								
05/01/2008 08:48								
AmfRec: 20ML_6XLP #Containers: 7								
Scr: Alpha: Beta:								
4 KMEOM-1-AC								
J8E010311-4-SAMP								
05/01/2008 09:36								
AmfRec: 20ML_500MLP_6XLP #Containers: 8								
Scr: Alpha: Beta:								
5 KMMW2-1-AA-B								
J8E060000-573-BLK								
05/01/2008 10:29								
AmfRec: #Containers: 1								
Scr: Alpha: Beta:								
6 KMMW2-1-AC-C								
J8E060000-573-LCS								
05/01/2008 10:29								
AmfRec: #Containers: 1								
Scr: Alpha: Beta:								
7 KMMW2-1-AD-B								
J8E060000-573-BLK								
05/01/2008 10:29								
AmfRec: #Containers: 1								
Scr: Alpha: Beta:								

TAL Richland
Richland Wa.

Key: In - Initial Amt, fl - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

Page 1

WO Cnt: 7

ICOC v4.8.32

5/6/2008 3:51:29 PM

Sample Preparation/Analysis

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

N/A

Pipet #:

AnalyDueDate: 06/16/2008

Sep1 DT/Tm Tech:

S-30-080r

Batch: 8127573
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

pCi/L

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS, 57671

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

C-14 RDL: 2.00E+02 pCi/L LCL: 70 UCL: 130 RPD: 20

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7

ICOC v4.8.32

6/5/2008 12:55:56 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/6/2007, 6/10/2008, Batch: '8127573', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127573				
AC	Rev1C	McDowellID	5/30/2008 8:40:13	
SC		wagarr	IsBatched	5/6/2008 3:58:29 PM
SC		McDowellID	InSep1	5/30/2008 8:40:13 AM
SC		McDowellID	Sep1C	6/3/2008 8:35:37 AM
SC		ClarkR	CalcC	6/4/2008 10:50:11 AM
SC		nortonj	Rev1C	6/5/2008 12:55:49 PM
AC		McDowellID	6/3/2008 8:35:37 AM	
AC		ClarkR	6/4/2008 10:50:11	
AC		nortonj	6/5/2008 12:55:49 PM	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

Page 1

Grp Rec Cnt: 4
ICOCFractions v4.8.33

15/1/2008 4:21:05 PM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)
51 CLIENT: HANFORD

Analysis Due Date: 06/16/2008

WU 5387

Batch: 8122529 WATER

mg/L

PM, Quote: SS, 57671

SEQ Batch, Test: None

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample Date Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KME0J-1-AA								
J8E010311-2-SAMP								
05/01/2008 09:36								
2 KME0J-1-AC-S								
J8E010311-2-MS								
05/01/2008 09:36								
3 KME0J-1-AD-D								
J8E010311-2-MSD								
05/01/2008 09:36								
4 KME0J-1-AE-X								
J8E010311-2-DUP								
05/01/2008 09:36								
5 KME3D-1-AA-B								
J8E010000-529-BLK								
05/01/2008 09:36								
6 KME3D-1-AC-C								
J8E010000-529-LCS								
05/01/2008 09:36								
TAL Richland								
Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2								
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ci-Cocktiled Address								
Page 1								
ISV - Insufficient Volume for Analysis								
WO Crit: 6								
ICOC v4.8.32								

5/1/2008 4:21:06 PM

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)
SI CLIENT: HANFORD

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Analysis Due Date: 06/16/2008

mg/L

Batch: 8122529

SEO Batch, Test Name:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS, 57671

KOE0J1AA-SAMP Constituent List:

KOE0J1AC-MS Constituent List:

KOE0J1AD-MSD:

KOE3D1AA-BLK:

KOE3D1AC-LCS:

KOE0J1AA-SAMP Calc Info:

Uncert Level (#s): 2

KOE0J1AC-MS Calc Info:

Uncert Level (#s): 2

KOE0J1AD-MSD:

Uncert Level (#s): 2

KOE3D1AA-BLK:

Uncert Level (#s): 2

KOE3D1AC-LCS:

Uncert Level (#s): 2

Decay to Sadt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Decay to Sadt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Decay to Sadt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Decay to Sadt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Decay to Sadt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By

Date:

TAL Richland
Richland Wa

Key: In Initial Amt, fi Final Amt, di Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ci-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 6

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